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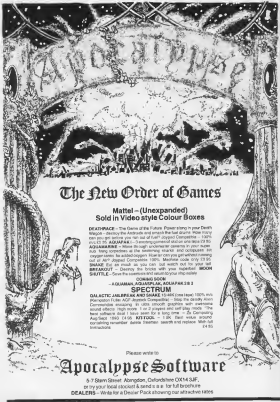
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1. *Journal of the American Medical Association*, 2000; 283: 2686-2692.

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- SPACE
-
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PLATE 1



WILEY

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© 2004 Blackwell Publishing Ltd, *Journal of Internal Medicine* 255: 105–112

COMING SOON...

Electronic has released some new games and a precious package called *Final Wizard*.

They will be available on disk and cartridge at around \$40 from the Atari, and include *Conquer Kamuro*, a 16-screen arcade game where you attempt to break through a space blockade. *War of Wits* a two player 3D game. *Movers* for Smith, Yonah, Yonagari, *Jet Road Block*, *Thrust Force*, *Night Raiders* and *Roundabout*.

All games are in the Atari 480V60 format.

□ □ □ □ □

Rockwell has announced two new games for the Atari 480/600 computers - *Operation Wizard* aimed at arcade players with inclinations to war themes, and *Carry Day* by David Snyder (ed. David's Midnight Magic team).

Also released for the Commodore 64 are *Chopdier* by Alan Gaultin who designed the Atari original, *Amelia*, *Amputator*, and *David's Midnight Magic*. They're in cartridge at £35 to \$45.

□ □ □ □ □

Rockwell's new releases include three arcade games - *Eyes*, a creepy chase game. *On Hazz* a car game, and *Rockwell* from the arcade game of the same name (and ported in the UK).

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Eyes has joined the band towards buying licenses for well-known amusement arcade titles by releasing *Italy Highway* a *Crashy* and *Samurai II*. For the Atari 480/600 machines.

□ □ □ □ □

Treble has two new releases in the UK for the Spectrum - *Deadly Sky*, a helicopter shoot 'em up game with 32 levels, and *Knapsack* another 32-level top game at £4.

For the Commodore 64 and G64 (converted from the Atari) and Atari were released, both at £4.

□ □ □ □ □

Microdeal the Dragon unit, was specialist, has announced five new titles.

Challenger in the jungle and *Clashers* pits clapping are



Romero has it that the Daily Mirror is going to launch its own games software. This truth/tall-tale-story has even been kept secret from the Mirror's own staff but a reliable PCG mole claims as that several software buyers have already been commissioned to produce good quality games.

ry games.

Perhaps we can expect to see a Daily Mirror Micro Computer Club to go with its video club. It's a refreshing thought to see a Fleet Street tabloid showing an interest in computers, and given the demands of the quality Sunday and daily newspapers.

PCG TITBITS

Superstar has released this as a computer for the 64 at £125. This is basically an Atari 486, it has excellent clear graphics and good sound effects. The highest levels bring a new variety of colours and fantastic examples. Other programs in the package include *Crash* (from the Night Vision unit), *2D Chess* a cross between *Panzerlord* and *2D* chess game.

Self Defense from *Electronic* is a new game involving on a disk up to 100,000 of the Mirror's current sales. You take control of the character and have to survive a series of challenges. The game is in the Commodore 64 format and should be available in late October.

LEARNING TO PLAY

A lot of parents will be rushing out this Christmas to buy an Electron for their kids (see page 110) - a good buy for the price, but what about software?

As with all new machines good software designed for the Electron is then on the ground so it's good to see that Chalksoft, an educational software house, has been quick off the mark with two educational games aimed at seven to 14 year olds.

Panorama is a pronunciation program in which higher case up full stops and capital letters and *Panorama* controlled by the child, rather than back.

The other game, *Invincible Man*, helps children learn about coordinates. A cartoon man is hidden in a grid and so find him the player needs to solve clues in the form of compass directions.

Both packages will be available shortly and will be followed in November with two other Electron games.

CBS TAKES OVER MANIC MINER

Big Byte Software the company that brought an interest in the Spectrum has just signed a major distribution deal with CBS the record and video company.

The deal gives CBS exclusive rights to market all Big Byte software in the UK.

Apart from being good for dealers and distributors it should make it easier for us to get hold of the games.

San-based publisher house has announced new games and utilities for the Spectrum. *Commodore 64* and *BBC* Micro including *Gridrunner*, *Purple Turtle* and *Games Designer*.

□ □ □ □ □

Salomander has acquired the licence to convert and market all Minispec, V60 games (Quasmod) for other micro including the Dragon, BBC Micro, Spectrum and C64.

The games to be converted include *Gridrunner*, *Laser Zep*, *Thex*, *Matrix* and *Flower Power*.

the latest adventures of a newly-created Dragon star who first appeared in *Cath-bergen Walkabout*.

The other new releases include a real-time adventure a new American game called *Crashy Power* and an arcade style *Star Wars* game.

□ □ □ □ □

Vigra are all the recent software companies around continue to expand with the national rights sales.

Smash and *Crashy* are machine made arcade games for the expanded V60. *King Manager* and *Latin* are

for Spectrum owners (MSX) looking for a change from their clapping and *David's Cruise*, *7 Chess*, and *Castle Adventure* do the same for Dragon 32 users.

□ □ □ □ □

A range of 21 titles has been released by *Amic Computing*, bringing the Amic catalogue up to 40 titles.

There are five programs for the V60, 16 for the Spectrum 500 for the ZX81 and one for the C64.

□ □ □ □ □

Quasmod the Southwest

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PROG-HELP More 'ident bugs! This version of the popular arcade game uses hi-res graphics and machinecode for a fast moving game.



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PCG SOFT HITS

Title	Publisher	Available
1. Demolition Derby	Puff	Spectrum 256K
2. Amazin'	Image	Vic 26/Spectrum
3. Jet Pac	Ultimate	Spectrum
4. Pagla	Puff	Spectrum 256K
5. Peppercorn	Midnight	Spectrum
6. Darkrunner	Lamson	Vic 26
7. SD Hunt	Ultimate	Spectrum
8. Titan Run	Ultimate	Spectrum
9. Thumper	Quadrant	Spectrum
10. Mano Mano	Big Boy	Spectrum
11. Attila the Hun	Image	Spectrum
12. King	Ocean	Spectrum
13. Arms	Image	Spectrum
14. Monsters on Hell	Solo	Spectrum
15. The King	Midnight	Dragon
16. Robber	Midnight	Spectrum
17. Smashin' Kix	Puff	Spectrum
18. Football Manager	Advision	Spectrum
19. Mama	Lamson	Vic 26
20. Wacky Water	Image	Vic 26
21. Mania Attack	Master	One
22. Agatha	Herman	Spectrum
23. Mania Mania	Puff	Spectrum
24. Mad Mania	Marquis	Spectrum
25. Crash King	Interceptor	Vic 26 Commodore 64
26. Starline	Image	Spectrum
27. Seven 7	RS	One
28. Janitor (Police)	Tower 888	Acorn 400/500
29. Chess	Puff	Spectrum
30. Power	Team	T1/26/44
31. Yupp	Image	T1/26/44
32. Ti Trakum	Team	Spectrum
33. Thompson Power	Magload	Spectrum
34. Youshiki	Compass Remake	Spectrum
35. Pew!	CDI	Spectrum
36. Grand Master	Quadrant	Commodore 64
37. Mania Mania	Advision	Commodore 64
38. Zip Zap	Image	Spectrum
39. Gladius	Ultimate	Spectrum
40. Pew!	Ultimate	Spectrum
41. Warrior	Image	Vic 26
42. Blaze 2048	Big Boy	Acorn
43. Scramble	Quadrant	256K
44. Talking Football Attack	Midnight	Dragon
45. Attack of Mutant Cars	Lamson	Commodore 64
46. Space of Fun	Ultimate	Spectrum
47. Warrior Warrior	Lamson	Commodore 64
48. Battle of Britain	Microcomputer	Spectrum
49. Pew!	Ultimate	Commodore 64
50. Adventur	Lamson	Vic 26
51. Armadillo	Ocean	Spectrum
52. Backgammon	Puff	Spectrum
53. Submarine Commander	Team (CDI)	Acorn 400/500
54. Man! Death Race	Puff	Spectrum
55. Arcon	Dragon	Acorn
56. Football	Solo	Spectrum
57. Centipede	Acorn	Acorn 400/500
58. Space Adventure	Image	256K, Micro
59. Labyrinth	Commodore	Commodore 64
60. Warlord II 40	Midnight	Spectrum
61. Crusher	Ultimate	Spectrum
62. Star Raiders	Puff	Spectrum
63. Killer Gorda	Microcomputer	256K Micro
64. Blitz Man	Image	Acorn 400/500
65. Shadoks	Puff	Spectrum
66. Galaxian	Superior	256K
67. Grid	Image	Spectrum
68. Proger	Interceptor	Commodore 64
69. Andri Atlas II	Lamson	Vic 26
70. Assault	Big Boy	Vic 26
71. Command	Big Boy	Commodore 64
72. Three	Ultimate	Vic 26
73. Covered Man	Acorn	Acorn 400/500
74. History Run	Puff	Spectrum
75. Strike a Pose	Midnight	Spectrum

This chart represents the most widely available software for the home market. However, as it can't begin to encompass the total number of 800 shops and software releases in the field, it is left to the individual and multiple chains of shops to weigh in as to the number of copies. This chart is copyright MMR Computers 1985.

1	Jumpman	Image	Commodore 64
2	Manabitch	Image	256K
3	Chyllian	Midnight	Acorn
4	Warlord	Lamson	Spectrum
5	Outback	Salomander	One
6	Jumpin' Jack	Image	Spectrum
7	Death Rider/Deep	Shaphard	Spectrum
8	Wayback	Quadrant	Vic 26
9	Indestructible Island	Shaphard	Spectrum
10	Bank Art	Quadrant	256K
11	3D Combat Zone	Acorn	Spectrum
12	Phantom	Phantom	Acorn 400/500
13	Quadrant	Quadrant	Vic 26
14	Power	Acorn	Spectrum
15	Manabitch	Image	Vic 26
16	Jumpin' Jack	Image	Acorn 400/500
17	Warlord	Lamson	Vic 26
18	Wayback	Quadrant	256K
19	Manabitch	Image	256K
20	Wayback	Quadrant	256K
21	Manabitch	Image	256K
22	Wayback	Quadrant	256K
23	Manabitch	Image	256K
24	Wayback	Quadrant	256K
25	Manabitch	Image	256K

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AGULNIK'S ADVICE

"I was in the process of formally registering the company, and in the meantime am working on General Agulnik's Fantasy Air Apocalypse software. I am also registering for VAT - I want that sorted before the company gets trading and it becomes a problem."

"Programmers then get 25 per cent of the selling price of their game. So if we sell to the public direct and get the full price, the programmer will get 25 per cent of that price. If we sell 2,000 programs at a discount - say one dollar - then the programmer will get 25 per cent of that. There is a profit, but a lot of money goes into packaging and advertising."

"We have commissioned a few called Whitebox Graphics to design our packaging, Agulnik says. The games are in 1MB-type video boxes. I think up the there and Whitebox Graphics drives them up. Again, the relationship is informal."

"When it comes to advertising, I think about the market. This is generally the lower end, programs for computers costing about £100. Our advertising is split into two sections. There is a more expensive one for the BBC and another for the Aquarius and Spectrum. A new company called Omega Studio is handling this."

"Running expenses were first helped by the Manpower Services Commission Enterprise Scheme," he says. "Initially, if you show you can afford it, but, for the first year, they gave, the scheme enables you to get grants, to help a new company."

"It's a long process, but once you get through that, it is worth it."

"There have been no legal problems," Agulnik says. "My mother is a solicitor, which obviously helps, but I did wait until I reached 21 before setting up the firm."

"That is something I would say to anyone thinking of setting up their own business. If you are under 18 and things go wrong, legally your parents have to pick up the financial pieces and pay your bills."

combat courses join the military club and make their own costumes.

I started in the computer games business at the Association of London Computer Clubs," he says. "I got talking there to ZX Computing editor Roger Mearford, who was then on Computing Today. The following week I went to no exhibition to help him."

By the end of the first day I had an exhibition badge. By the end of the second day I had met Interface and several other people. I ended up talking to Russ McDonnell from Popular Computing Weekly magazine.

After that, I came to shows to help Popular Computer Monthly. I got trained up and helped on the stands selling magazines, and moving stuff.

"The stands spent on the exhibition trail looking around Britain paid off. Agulnik now has one of the main order wire networks of microcomputer centres in the country."

"I would talk to a guy, phone him up later and keep talking, because the computer games market has grown so quickly. I know most of the well-known names where they were just starting, like Lawrence. Agulnik says.

For example, I first met Jeff Minter at a show and we got talking. I knew Eugene Evans before he became a computer firm with Salsarader - it was just a Dragon company when I first met the people in it."

In November last year, Agulnik met Bagby's partner Tony Minter at the Northern Computer Fair.

"Why don't you start up too?" Minter asked him. The idea appealed to Agulnik.

Originally, the firm was to be called Agulnik. This was after Agulnik Mearford, which is involved in Diagonex and Diagonex, but the company was worried about claims of incest.

Then the name Apocalypse struck me - I didn't want a "smooth" name like Robert, says Agulnik. My advantages are full of crash smash destruction everywhere."

Apocalypse did not really have a formal start. I opened a bank account, set work and put my own program, Andrew Giles, on the web."

"You could say the firm started formally at the beginning of August, which is when I rented the office and started working full time."

I go to the office everyday. Agulnik says. I usually get there at 11am and leave some time between 1pm and 12 midnight. I have been known to get back home at 2am the morning."

I have an informal relationship with everyone who works with me. I don't like working on a dictatorial basis. My relationship with Andrew, for example, is very informal. I come up with the ideas and Andrew comes up with the programs."

Apocalypse has a number of programmers working on projects but they don't do as much as Andrew. One programmer, Bob Varley, is designing an Aquarius North program. Gerald, my programmer in London, is working on

BBC adventure games.

When I started the company, we entered at the Spectrum and BBC computer games market. I considered a lot of the UK companies. Tommy Mottel, Laser Computer, Hamdinger Computer and later on, Monolith."

Agulnik feels that successful companies are built on the basis of new computers.

"I looked for a new computer to base our line on," he says, "and decided Atari's Aquarius was likely to sell."

There are many other names who are taking the Aquarius that not only Agulnik. SilverShop obviously is well up. So are John Mearford, Shogun, WH Smith, Agulnik, Great Universal Stores, Asda, Dixons and James Self, independent lighting."

If the Aquarius achieves 100,000 sales, we can make quite a lot of money selling software for it."

"What of the future?"

In the next year I hope to move entirely into adventure games, says Agulnik. After that I am not so certain, but I might move into education. I will not start Apocalypse makes enough profits from games, and then we start."

"I came up with ideas for three games this week. I also created a gaming adventure and a fantasy role-playing game. That's just for this week."

That is what I like about my games. They are a mixture of computers and Diagonex and Diagonex. Agulnik summed up his own feelings. "I really like an adventure." ■

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GOON...AD

THE SECRET OF THOSE SENSATIONALLY HIGH SCORES IS LIES & THE

or the dedicated games player it seems like a sin to come here. Then you are in the comfort of your own home you're just wrapped up in your very own games, you're stacked up with all your favourite games and adventures and your finger is itching to blast those aliens out of the sky.

For you there'll be no more hanging round the local arcade, waiting for your turn and going through 10p's like there was no tomorrow. Your game playing world is complete. Isn't it?

Is there anything else you need by way of extra equipment, add-ons and peripherals?

First of all, let's consider the television picture. It's all very well using the 25 inch job in the corner of the living room, but what happens when the family wants to watch *Coronation Street*?

The ideal solution would be to get a TV of your own, so that you can set up your computer system in your bedroom out of the way of the rest of the family.

Buying a second TV may seem an unnecessary expense, but it's surprising how cheaply a secondhand, or rental set can be picked up for. Sometimes you can find a colour model for £20 or less, and there's no doubt that a set reserved solely for computing will save an awful lot of family strife.

Of course if you are very lucky, and very spoilt, have rich parents, you might have a monitor to sit with your new computer. This not only gives a much better picture, but it means that there will be no squabbling over the TV set.



There is one point to watch with a monitor: some computers rely on the television for their sound facilities, and using a monitor will mean that the sound dies.

However, very few of us are lucky enough to own monitors. As far as this article is concerned, we'll assume that you are stuck with a television display.

If you do go out and buy a TV specifically for use with your computer, make sure that the two are compatible. The Spectrum, for example, will not produce a good picture on certain makes of TV.

If possible, take your computer to the TV shop and try the two set together. Shop owners will have no objection if you explain why this is necessary.

As a matter of interest, Sinclair has



now redesigned the Spectrum to work with a wider range of TV sets. Unfortunately, this has had the unforeseen side effect of preventing some commercial software from working on the new 'low I' Spectrum.

So you've got yourself a cheap old television. The next requirement is a comfortable working area. A desk or table will do fine, but make sure that you have enough room for the computer, the TV, a tape recorder, a notepad, and all the other odds and ends that you're going to need.

Make sure also that your chair is the right height and has a backrest. You are going to be spending long hours with your computer, and backache is no fun at all! Some shelves and drawers for books, magazines and cassette tapes would also be useful.

Okay, the working area is set up to your satisfaction. Now it's time to turn outside on the bath and porch you are going to need to build up a complete gamesroom.

The first absolutely vital requirement is a tape recorder for loading all those games into your computer. (I assume here that you don't have a system with disk drives.) You can get away with something very cheap here. The tape recorder I use cost me £9.95 brand new, and has served me well for 18 months.

In way of saving a few pence, The average mono cassette deck with stereo inputs and the output from most hi-fi systems is too powerful. A cheap mono recorder is just the job.

There are even computer compatible tape recorders available - in

fact, WH Smith has not produced a new model - but these are generally much more expensive, typically around £30 to £45.

Of course, if your computer is a Vic 20, Commodore 64, or Atari, then you have no choice as the master. These machines use their own special tape recorders, and ordinary tape recorders will not work with these computers.

Try and get a recorder with a tape counter built in. This saves a lot of time when you're searching through a tape, looking for that great game that you recorded last week.

If you are BBC or Sinclair owner, you have a further choice - the BBC supports the Habitat tape system, and Spectrum owners can use the new Microdrive.

The Habitat and the Microdrive are both very sophisticated tape systems, approaching a disk drive in terms of speed and ease of use. But, as both contain a standard tape recorder, it is likely to be necessary for loading commercial software.

An add-on which some people think of as optional, and others think is vital, is a joystick. In this case the more users support the idea. There are dozens of different types available, and it is often very difficult to know which one to get.

Spectrum owners, in particular, will find themselves confronted by a plethora of different makes and sets, none of which will operate one make is unlikely to work with another.

The Atari joystick, with its 8 shaped connector, is probably the nearest thing to a 'standard' joystick, and most of the

GO ON...!AVE FUN!

IN THE PERIPHERALS AND OTHER STUFF YOU STICK ON, SAYS SUPER ZAPPER STEVE MANN.



interfaces on the market for the Spectrum are designed to use this type of stick.

The machines have a built-in joystick and machines such as the Vic 20, Commodore 64, BBC and Dragon have built-in joystick ports.

The Spectrum and the Cric have no provision for joysticks in their basic form. In each case you will need to buy an interface that plugs into the computer's expansion port, and that puts the computer.

A joystick is absolutely vital for the serious games player. There's no way you'll be able to get a record score on *Demolition* if you have to rely on the keyboard to play the game.

Both Spectrum owners will find this most more so. The keyboards on these machines are difficult enough to use at the best of times, when that machine are vital the rubber key keyboards are handicap impossible to overcome.

If you are adventurous you might be interested in the non-standard type of joystick. The Lord 945, for example, supports joysticks which consist of a disc contained in a handset. The disc is rotated in the direction required and the model instructions is provided.

There is also the Trackball, which uses the same principle but which as its name suggests, contains a rotating ball. These are used to give a better response and to be easier to use than conventional joysticks, but they do take a bit of getting used to.

Probably the ultimate in joystick technology - the Ball-Key of joysticks is

my opinion - is the model that works on the light sensitive principle. Called the Trackball, this uses photo transistors and light-emitting diodes and the player operates it by simply moving up the photo-transistors with his/her fingers. The Trackball has appeared only recently and will retail around £30.

How much you have to spend on joysticks depends on your machine. An Atari joystick that will simply plug into a Commodore 64 will cost you just under a tenner, but a Kensington Competition Pro joystick and interface for the Spectrum will cost you £25.

For the Spectrum it is probably better

to buy one of the new programmable joysticks. There are two or three different types of these and they should work with almost any software. Programmable means that the player programs the joystick to mimic the action of any key. Programmable joysticks are suitable for games that are designed for joystick use, or for games that are meant for keyboard operation.

Another accessory that may well be useful for game playing is a computer printer. Although not necessary for 'blob-chaser' games (such as *Spartan*, *Demolition* and the like), a printer really comes into its own when playing games



The Atari Track Ball, easier than a conventional joystick, costs less

of strategy, such as adventure games to chess. It's surprising how often you will need to make a record of a successful information.

Prices vary in cost and in standard of print. At one end of the market is the Sinclair printer which can now be bought for less than £40. At the other end is a desktop-sized printer that produces letter-quality print, and which can cost up to £1,000 or even more.

A printer is certainly not an essential purchase but once you have one you will wonder how you ever managed without it.

For someone who isn't going to use a printer for word processing or letter-writing, a Sinclair printer is fine - there are worksheets available to allow many different modes of computer to use it.

Another low-cost choice is the Tandy laser colour printer. This one may come relatively 'drier' but in graphics.

It's hardly the quietest machine but the quality is good and it has the advantage of using ordinary white paper instead of the Sinclair silver thermal paper.

The Dux printer is almost identical to the Tandy, and should set you back about £175.

There are many other accessories that are designed to make life easier for the game player, and although none of these are really essential, they can all enhance your enjoyment.

The Spectrum supports the vast majority of these 'non-essential' add-ons - probably because its basic design omitted many features as the universe of cost-cutting.

Add-ons that will particularly enhance games playing are those which give speech capability, together with a range of other programmed sounds.

One owner has four 'gears' sounds, built in, motor, car, fire, and conveyor, and other machines have sound capabilities that allow these and other noises to be easily programmed.

The Spectrum, with its somewhat woefully single channel noise, needs a little help in this direction, and there are several add-on sound packs that give three-channel sound music and speech capabilities.

Perhaps one of the nicest is the range of units from Fuller, using a box that matches the Spectrum in design and colour and which simply plugs into the edge connector at the rear; you can select a three-channel sound generator or the Crestor speech unit.

The Crestor uses algorithms which means that words are built up phonetically, and the system thus has an almost infinite vocabulary.

For the game player, this means that subtle warnings can be given when danger looms, leaving the player time to have to keep his/her eyes glued to the screen for a warning message.

The Fuller Master Unit, which contains the sound and music processors, as well as the Crestor, and a speech port can be purchased for around £50, and

has the added advantage of enabling both cassette loaders to be left in place. No more lost programs when you forget to remove a lead when switching.

So that's about it. This has only been a brief run-down of accessories and peripherals that will help you turn your computer into a complete game system. I hope this piece will have given you some ideas of your own.

Obviously, the number of extras is quoted will depend on the computer you have bought, or have been given.

If you are starting from scratch, you should remember that the computer you buy should depend on the use you have in mind.

For playing games it is best to go for something that supports a wide range of cheap software. It's no good plumping

for a model of the ordinary machine with no software support.

Remember also to keep an eye on the computer magazines. These all contain huge amounts of advertising and are the ideal advance warning of 'new software' peripherals/computers.

Above all, think before you buy - is that laptop the main in the shop was so keen to sell you really the best for your machine, or your needs?

Remember also that you might just recoup the cost of your add-on if you invest a spending save game and then sell it. And however much enjoyment you get from playing, occasionally produced games you will get a lot more from writing your own.

Happy gaming!

The Spectrum Microdrive, the next best thing to a disk drive. It holds up to 512K according to the manufacturers, and loads a typical 48K program in as little as 8 seconds.



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HOW TO ENTER, PART 1

First read very carefully the instructions below, and the clues on the opposite page.

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The answers to these questions will lead you along a trail, and at the end of this trail is our Mystery Location.

If you successfully identify our Mystery Location, AND you manage to identify the 15 places of interest we pass along the way, you could be the winner of our star prize.

To follow our trail, you'll need to consult two Ordnance Survey maps, the reference numbers in the maps you'll need are hidden in the first verse.

With the help of the maps, and the following 15 clues, you can begin answering the questions.

The first letters of the answers to the first questions in each of the following verses add up to a 15-letter acronym of the Mystery Location - an acronym which you must enter.

The second question in each of the 15 verses asks you to identify a place or feature of interest along the way.

When you have answered all the 38 clues and solved the acagrams you must send all 38 answers, together with the name of the Mystery Location to: *Colour Game, Colour Game Competition, Personal Computer Games, 65 Oxford Street, London W1A 3HD.*

The mystery trail can be revealed in two ways. We can work out the solutions from Ordnance Survey maps and reference books which are available at most major public reference libraries.

Alternatively and more enjoyable for the whole family you can follow the trail by car or bike. Hard profiling Richard Peat of Love Computers - who so

generously donated the prizes - cycled the route in a day.

However, we must stress that physically following the trail is not necessary to enter the first part of the competition.

HOW TO ENTER, PART 2

If you won the first part of the competition AND if you own a Colour Game, you are eligible for the special bonus prize. You add the serial number of your Colour Game to your entry. Then enclose photographs, or copies of photographs, of each of the four places of interest marked with a * in the clues.

You do not need to take these pictures yourself. Under the rules, you can supply paintings, or copies of pictures from books or magazines of the places.

If you win, your purchase money will be refunded up to the value of £500 and the whole family will enjoy a weekend in a luxury hotel of our choice, with a gift from us of a video camera and recorder worth £500 to capture the event.

THE RULES

All solutions must arrive at Personal Computer Games by 5.30pm on Tuesday 6th December 1983.

No late entries can be accepted, and proof of posting is not regarded as proof of receipt.

Employees and their relatives of Love Computers, East Midlands Advertising



The Colour Game

and YNU Business Publications are not eligible to enter.

In the event of a tie, contestants will be set an additional question by Love Computers. The answer to the first correct answer to be agreed will be the winner.

The winners will be announced in the first Personal Computer Game.

The judges' decision will be final.

(We would like to acknowledge the help of PG of the Special Ads Agency, LAM.)

SPECIFICATIONS

Processor	286 3.2MHz
Memory	128 KRAM (10K available), 18K ROM
Language	Microsoft extended Basic
Graphics	Eight colours, eight lines and dots Mode A has a screen size of 640 x 350 (1,000 screen locations) for text and 320 x 200 for graphics, Mode W has 340 x 200 for highly effective pixel graphics
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THE CLUES

To start on the trail of this competition
You'll need to be a mathematics man
Lower Division A highest average 3,500 feet
Now add that sum for the next entrance sheet.

Enter Pindar's apartment, a place in history
Hippocratean rooms some will never set you free
Three days are ordered in St. Myrion's Crypt
Now two and of the first job West be peeped.

Go down north, avoiding dragons and green men,
Past a or Ramrod road, watch into home, ye true.
Eight to nine Furlongs – there miles less a quarter than ten
Date what was first in the day and glimmered to us then.

Through hell and park to gateway gate
Self Army was founder was born there on night
Keep the ball rolling, don't look be backward,
Then, too, low about up and down roads.

Peer the Hole in the Wall, there's no Hatch or Sandstone –
Nearly Dugge me say soon there are chance,
Not permitting such bold steps on this route.
But George Elton's novel on the Tradition does square.

Southeast by bridge to the place of the den,
Gravit was called by Chastrian's rule, ye are here
We need not then guess that the building John Lamb made?
And the products of 1800, 1750 that on a shelf not fade.

Proceed north along river, there if the up fishers
You're on the right bank this sea does takes the waters
To where on Quaker's old General? Wife a woman there?
To not your lady? we want more, please.

A thermal spring means a fairly midrange
Sir William Cavendish in 1910 would have flown
Away, 10 miles – or as it happens – in a time a hole.
Now, had for a time who never saw it in the code.

Through the rags that's used and over you
Peer Victorian clock? into four squares
Where London taxi's slowly passed did come
The open air church of the Arsenal is your home.

Briony took, through white rags, just a half a long
day rocks appear slowly, not how you go
Before on the gate you if be as true like drive
If you can't find what said and John Ruskin's one.

Where the Wife leads follow to below a secret castle hall
A massive wall made on stone for the bell.
Answering that and the next would be great –
From which century does the Gothic bridge date?

Clifford would then live for inspiring sight,
England's great stream will give you the light
With in the year and facing the fall
Wife tested more than any other must have been mad.

The village of many ash trees leads the hand
Of herbs and flowers where your say shall stand
Answered to me would give the salt on
As does the age of a field camp above.

Follow random way, upward Roman road
A dangerous secret was in the hole
The music has changed from original and
Seeing that brings you nearer the clue.

Edging by fish and eucalypt, thermal to night
Dark rocks point your way, try and try
An elementary clue comes your way
As you find what incalculable they portray.

Adventure will live on the kingdom you have been
Like an eagle in your start with much concern
Your quarry has fallen and if you must shoot?
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PCG RESULTS

INTERPRET ADVENTURERS LET THEIR BRAINS RUN RIOT WITH IDEAS FOR OUR COMPETITION

The Personal Computer Games office has been slammed with entries for the adventure game competition in our last issue, and we were surprised by the high standard. We finally managed to whittle down the numbers to a top dozen for our panel of judges to ponder.

The entries were a combination of traditional text-based adventure games and arcade-style games. One entrant, Dave Cornwall, went the whole hog with *Morph the Mook Meets the Space Invaders*. The computer adventure plays the part of Morph who works his way through all the popular arcade games.

We had characters from furry tales, such as Jack in the Beanstalk, made as warriors, sports, and god-creators, but the

entry that won the CGLMS home computer accolade was for a Neopagan story by John Schley.

H.M. Silverman wrote a very close second with two of his entries, *The Menagerie Factor* and *The Island of Menagerie*, and he also sent in three other excellent ideas.

The other runners-up are *The Golden Seal* by A.K. Gooling, one of the best games we had in programmability terms; and *Time-Master* by L. Lohrner.

All three runners-up will each receive two books published by Century — *The Intermaze Machine* and the *Dictionary of Near-Information Technology*.

Below is a great idea winning entry, and several, extracts from the best of a winning game.

QUEST FOR A NEW BEGINNING

Morph the Mook passed through the holocaust and donated the human race and contained the Earth. Scientists who forecast the ultimate self-destruction of the human race built a computer — massive, powerful and self-regenerating — and gave it the power to regenerate the Earth after a cataclysmic disaster such as the holocaust.

But the holocaust came too quickly and the upper section of the computer building was totally destroyed and with it, all the people who could operate the computer.

The remnants to the huge underground section of the computer building were imperceptibly blocked by tons of debris, cutting off all hopes of activating the computer.

The 12 activating circuits were lost, hidden in the hundreds of rooms below ground.

All these circuits could be located intact, and returned into the 12 correct slots of the computer; it would be activated and carry out the purpose it was designed for — and the Earth would be reborn.

One of the surviving inhabitants of the holocaust (that is, those who were orbiting Alpha Centauri Four) soon returned to Earth in the hope that there is some truth in the legend told by his parents.

The legend said that somewhere on Earth there was a computer that would

give the Earth its new life, and the human race a second chance.

Now after three years of constant searching across the cold, dark, barren deserts which the local natives had become — searching, sometimes pits, and laborious ones (both 1984), he had found an opening, which he widened and climbed through.

He found himself in a corridor, lit dimly by slightly luminous walls.

He searched rooms after room, usually finding nothing, but now and then finding a useful item — a collector, blaster, charge packs a teddy, and other such items. The blaster proved to be useful against some of the radiation mutated creatures that followed him trying to kill him.

The radiation mutated as gradually took its toll, making his progress more and more difficult. The blaster charge packs were quickly used up and he had to be continually alert. One machine he spotted a slave and painful death, and once a mad-beast was on your tail there was no turning back.

As he trudged on deeper into the complex, automated defenses became more numerous.

There could about you down with tear-gas mace bolts, or start shooting to tell you in and relocate you — electrocute you and take you with horrible abuse than their synthesized voices.

One by one he found the missing circuits. Some were hidden under dirt and debris where they had been left, others were more carefully protected by cunning traps that could mean death on impact.

He found that the strange symbols found at random intervals along the floor gave subtle clues to the whereabouts of the circuits if you deciphered them correctly, otherwise they could send you round in eternal circles, disorienting you, and slowing your progress.

Sometimes music would be heard somewhere far away if he headed towards it, it would stop, but it could give clues if he listened closely enough.

Over he had gathered together all the circuits, he had to find a hidden doorway that gave access to the computer.

The signs gave clues once noted but only if you looked at the right time.

After a great deal of pain, sweat and perseverance he came to a panel in the wall of a corridor.

Set into the panel were two buttons. A sign above flashed up lit red.

ONE BUTTON OPENS THE DOOR OR WILL KILL YOU.

Cautiously he thought trying to work out a possible way to tell which button did what. But there were no clues. Guessing was the only way. He tapped the teddy and reached out, pressing as he pressed one of the buttons.

Slowly a crack appeared in the wall. It widened, he came a doorway. He stepped through into the room beyond, and the wall closed behind him.

Before him stood the computer silent and majestic, its huge monitor dark and below that 12 slots waiting for the 12 circuits he had found.

He knew he had a limited amount of time to insert the circuits in the order that activated the computer. Otherwise the automated defenses would recognize him as an intruder and start military activity's on.

He put in the circuits. "Wrong!" He swapped a few. "Wrong again!"

He tried again and again, as time slipped by.

Then he must have got the sequence right, because the lights grew brighter, the computer hummed and a message appeared on the monitor.

"WELCOME CODEWORD TO AN OPEN WORLD REBORN."

Codeword? What it could be he had reached the possible future was infinite.

Perhaps it had been in one of the rooms or corridors, and he had missed it.

Or perhaps the clue was in the signs somewhere. If he couldn't find it he would be trapped and the earth would be doomed.

Perhaps truly knew the codeword? It must be here somewhere. He knew it must be.

Everything depended on it.



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PCG RESULTS — RUNNERS-UP

HERE ARE SOME OF THE IMAGINATIVE DESIGNS WHICH NARROWLY MISSED WINNING

The Hexagon is a top secret government establishment doing research into nerve gases and gas war fare.

Our hero (the player) is the head of security and the action takes place over a hexagon weekend in the Hexagon.

In the computer hall is the powerful computer system entitled 'Custer', which controls all doors, window communications, heating/ventilation, CCTV and normal personal and business records.

Unknown to our hero, Custer has been program-

med to slowly malfunction during the weekend in order to allow two intruders to steal the formulae for the lethal secret weapons.

To add to the problem, the building's water supply has been doctored with a strong sedative.

Luckily, Custer has a brother computer known as Polka, which is only used if Custer goes down.

During the weekend Custer's steadily becomes more and more of a problem as telephone lines are cut off and the electricity (lower is changed with a lethal voltage. Confusion, death and

mayhem are the result.

Doors open and shut at random, and no one can leave the grounds or enter except for the two for male guests.

The player must counteract the destructive tendencies displayed by Custer. Some of the computer's reports are true, others false—but all have to be acted on. Polka continuously begins to gain power and all her reports will be correct.

Obviously the intruders must be captured and stopped, and Polka brought on line to restore communications and records.

The Hexagon Factor

by R. Stewart

The Island of Morassie

by R. Stewart

Summoned to the small island of Morassie, off the west coast of Scotland, our hero (the player) learns from the local priest, Father Melchior, that the island houses one of the gateways to hell, and that the whole area is in the grip of devilish evil forces.

The player must rid the island and its inhabitants from demonic possessions and control, and close the gateway forever.

Characters include the hero, who has a vast knowledge of occult lore and is a psychic investigator. Also on the player's garden

angel, who is invulnerable and can materialise objects requested by the hero; Eleanora's companion, Petra, a much-loved female agent and IT civil administrator.

The enemy are eight demons, two poltergeists, tulpa and banshees. There are also raps, which are black, rocky friends of demons.

The most deadly enemy dwells in Castle Morassie, set on an island in a loch. He is guardian of the gateway and must be challenged first.

The two poltergeists are invulnerable, cause chaos, and may possess children. A tul-

pa is a human form entity, devotion maintained by its controller's mind and only ceases to exist on the demise of its controller. Banshees are frenetic spirits who herald death for household dirty who get them.

Watch for possession of the inhabitants—such people will act normally. They can be identified by their absence of religious words.

Originally? It's set in Scotland! Otherwise it's the old battle line, I admit, though the player needs to have some knowledge of occult/psychic lore.

Time-Hunter

by L. Ishister

Using a time machine you can travel through 10 different eras (including your own) looking for six keys in a box which are centred through a cave system.

The cave system shows as you travel through time—on some eras the caves have fallen in or haven't even been made yet so you have to be careful how you travel as you'll end up in solid rock!

You can estimate how old

a cave is by the working of the rock wall. For instance rough surface = made no more than two previous eras ago at most.

As you travel you have to recharge your time machine by placing it on a marker that the inhabitants of each era have moved this is a different cave.

If you are really unlucky, the altar may be stored in a cave—so that you will have to go backwards or forwards in time to find the

cave that will hold the altar in that particular era.

Several eras have ruins to the surface. Unfortunately if you stay out too long, you die!

You get a partial map of the cave system on your first problem.

Several of the eras have inhabitants who may help or attack you.

If attacked and you win then they will help you, but if you make a mistake and lose, you die!

The Golden Seal

by A. K. Gosling

The adventure takes place in ancient Rome, where the successful, engaged soldier and power but where death could be spectacular if cruel.

The adventure's task is to obtain the first seal of Augustus (the last three during his reign).

This would be of great political value to the current emperor Domitian since it would be seen by all as a sign that the Gods had favoured him.

After obtaining the seal, therefore, it must be taken to the emperor's palace and handed over—the adventure

will receive a valuable reward.

Graphics are not essential and would depend on available memory. However, if they could be used, Hadrian's wall to show major locations, and the splendour of ancient Rome could add to the effect.

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- Video, Good! design/development program which is written in only a 1000 lines of code, which is easy to read and can be used for a second high resolution display game too.
- 12 control buttons and two written software lines.

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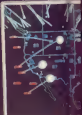
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MASSINGTON

I STRUCK A MATCH AND IN THE FLICKERING LIGHT I COULD JUST SEE IT.

WE LEFT THE RAILWAY STATION TO FIND THE MANSION BUT ONE OF THE TREASURE HUNTERS STAYED BEHIND.

WE REACHED A MUDDY RIVERBANK.

CLIFF

ONE OF THE TREASURE HUNTERS WENT TO ASK FOR DIRECTIONS AND NEVER CAME BACK.

BLAM!
EVAARRRR!

A RACIALLY WOUNDED

BUT, AT LAST THERE WAS THE MANSION

WITH THE MAFIA BALL OF THE
MAY/000 ALL WE COULD TAKE WAS
A TASTEFUL AND A SUIT OF
ARMOR.



THE NEW TREASURE HUNTERS
AND BEHARRING BLIND TO
THAT THE GUY WAS DEAD.



THAT WAS THEIR LAST MISTAKE!



SO NOW I COMPLETELY UNDERSTAND.

I FOUND A LITTLE SECRET. IT
SEEMED LOGICAL THAT IT WOULD
BE THE PERFECT HIDE-ING PLACE.
AND I WAS RIGHT.



BACK AT P.O. HEADQUARTERS

WE'RE SAD YOU'RE BACK
CAPTAIN. DON'T YOU
WANT A TONCH AND COME UP?



WE DON'T REALLY WANT TO
TALK. PART 17 WASN'T THE
REAL TALK. PART 18. THAT IS
STILL INSIDE THE MANTON.

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SCROLL

GAME: PIRBALL WIZARD
MACHINE: VIC 20
PRICE: £7.95
FROM: TERMINAL SOFTWARE
FORMAT: CASSETTE

As change flows the tape it, crunch it takes space: it's a lesson. VicCade packages the game - by good use of graphics and accurate timing alone of a person's most mind around a table - but a very playful feel to it, and it is easy to forget that the rolling, tumbling ball is acting most random, and not greedy.

I have never been a pinball addict, but this package with three flippers, four pins, rollers, a pack pin, and a slingshot get me to a point where I felt Roger Daltrey might well be pushed to a point around should they ever film Jimmy 'O'.

The feeling for a two player game and a single able to do it, it's a lesson, and when you are going to build your own with the Daltrey like (and you would need an Apple II) that it is good as you will get.

GAME: DEMONIAQUE
COMMANDER
MACHINE: VIC 20
PRICE: £24.95 approx.
FROM: TERMINAL
FORMAT: CASSETTE

It must be stated at the start that this is a very well produced simulation package, rather than the not too up-and-the game found in many articles.

The action is set in the Mordorian and your reviewer having glanced through the comprehensive instruction manual, felt confident that no step between Daltrey and the Gail was left. Within five minutes the submarine in question had been launched off Libya, into by enemy fire, and had become hopelessly lost.

Returning to the manual, I found that the instructions offered not only useful but invaluable support. So the number one is to ensure you know what those strange and extensive data and needless acrobatics.

The control area of the screen offers three modes: various maps, graphics, and the sensor area. The map is all the whole Mordorian screen and gives only the most general of impressions (in that it's a dot) of where you are. The location of the enemy has already been shown in the sensor area as the final mode: the sensor screen.

There are many many more things to think about in this game, and tactics are very important if you are to avoid

becoming a 'help pumpkin' on the first maps. To give you an impression of the complex nature of the instructions you have to keep an eye on outside compass clock torpedos supply fuel supply battery charge speed in knots sensor screen maps and percentage depth range - and that is only a third of them.

All in all, I rather think an honorary commission as the senior service should be the reward for a good score in this particular game.

GAME: Q*BERT
MACHINE: BBC MODEL B
PRICE: £7.95
FROM: SUPERIOR SOFTWARE

A title like Q* Bert is a word - it doesn't mean anything, and fails to suggest ideas or image kingdoms or any sort of stuff we're used to. So what's it all about? The big clue is that the first syllable is cube.

Imagine a pyramidal stack of cubes where each horizontal face of a cube has two adjacent sides for the bottom of a step up, and the other two being the front edge of a step down. If that makes your brain you'll find a diagram on the cassette cover.

When Q*bert comes up on the screen - it is an elegant piece of graphics - one face of that pyramid flashing in black.



space. As Q*bert is character unfortunately too small to take on much chance (at) you must step from cube to cube thus leaving long chains of movement.

Every time you step on a chameleon coil out, and the object is to collect the whole pyramid. It's easy to step off the pyramid and fall away, but the real diagram to step on the snake.

The snake starts at the top of the pyramid and moves a rapid random crawl to the bottom, when it disappears at the top, and the cycle starts again, falling off the pyramid or meeting the snake loses one of your three lives.

Two opening disks (being adjacent in the pyramid can be stepped upon to

burn the snake away) and take you to the top of the pyramid.

The whole game is very cerebral, and it can winging the most sort of logical addition. But it's a cube used to do. Alternatively it can draw you mad. The whole thing happens very fast, and the snappy rhythm of the sound effects is hypnotic.

This is a simple elegant mind game that is made exciting by its speed. It could have you finding as you pass up their company for Q*bert.

GAME: POKER, 21-LEW,
MINI BOULETTE
MACHINE: VIC 20
PRICE: £3.50
FROM: MC CIMP
FORMAT: CASSETTE

For those people who still remember what playing cards are, here is another chance to test the game eye, think, light the cigar and smell 'Dad'. The only difference being your opponent does not drink and eye, and keeps the win once point loss.

The program allows you £50 to start with, and your bet may not exceed 10 per game. This excludes bets on consecutive cards in the case of *Pommes* and *de Lou* (you remember that a die one that kept Peter Forsyth in line still).

It is by definition, a very straight forward package, but very amusing for the would-be gambler. Although I am certain that the computer does not cheat, the idea that it knows what its cards are before it deals makes some sense. But, and I am certain that this is why I lost my £50 in an embarrassingly short period of time.

GAME: CRUPLIGHT
MACHINE: VIC 20
PRICE: £34.95
FROM: AUDIOGRAPH
FORMAT: CASSETTE

This is not to the side may suggest an everyday story of a muscle building butcher, but a well written helicopter rescue game.

The object of the game is to rescue US hostages from an unnamed foreign country. It is not surprising that they wish to escape since this flight land is filled with prison, tanks, fighter aircraft, and killer satellites - without even a sniff of a MacDonnell.

The helicopter base is located in the east of the enemy border, and the mission takes the helicopter west in search of the hostages - who run 10-100



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SCREEN SCROLL

sound wrong what must be double-jointed arms in delight at the prospect of returns up to the good old total A.

Landing the helicopter gives them the break they are looking for and they keep ahead in these second invasions.

The home team, however, takes great delight in bombing, colliding with and shooting at anything that moves, and all in all the general impression is that US helicopters and their contents are definitely mean.

Fortunately (and not surprisingly) the helicopters are armed and may fire back when in the air. Once the first set of footpads have been paired up, the helicopter has to shoot up pressure to release further bombloads and then is quite likely to explode.

The game requires a joystick and uses the same and firing buttons you have from a recipe for disaster to the mysterious.

Screen's latest confidently lined up helicopter gun on enemy vehicles, no gap for better, your craft promptly burns through 90 degrees, which is more than a bit disconcerting!

However once the controls are used, this is a compulsive game, with both good graphics and a satisfying shoot-drop sound from the helicopter blades. **BF**



GAME: 3D BOMB ALLEY
MACHINE: BBC MODEL B
PRICE: £7.95
FORM: SOFTWARE INTENSION
FORMAT: CASSETTE

It's inevitable that every game has some influence ideas for games, and it's probably more than a coincidence that 3D Bomb Alley reminds me of the Falk lands. It runs atop with a background version of Blue Britannia.

The screen then reveals neatly drawn green and brown hills sloping down into a channel of water, with the sea in front of you. Three battle ships are anchored there and you're manning an anti-aircraft gun.

An enemy plane starts off as a black

speck, which can be anywhere in the sky and expands slowly to become the clear silhouette of a fighter jet. If the plane makes it overland to overhead it drops a bomb and a gap is lost.

The latter using the enemy plane is when you shoot it, the more points it is worth, but the easier the plane comes the faster the explosion when you hit it.

The game starts off quite easily, one plane at a time, but soon they're coming thick and fast and it begins to get the supply of say, 10,000 Command which requires translation!

The game has been written very competently, but there's no variety in what happens, no change of scene. This is really like the part of a larger game, the disappointing part, but there is no more. Minorities 3D Bomb Alley remains consistent.

No matter if a screen will let you storm embanks, fight vehicles, and do combat in the South Atlantic, how long before we see a game where, as a fighter pilot, we must work and destroy a gun to jet?

Should we play the same game, in government's? **MD**

GAME: DEEP SPACE
MACHINE: BBC MODEL B
PRICE: £7.95
FORM: PIONEER
FORMAT: CASSETTE

These screens will do anything for a game. They let you see it to oblige you to wear 3D glasses (included in the package) so you can admire them in perspective while you capture them.

3 Deep Space is a fun rental about sea game where the action takes place just above the stationary surface of a world decorated with lines of pyramids.

Like the ones in Egypt, these pyramids put us around and do nothing. They may have something to do with the screen, but it's hard to be sure because the game comes with no instructions beyond how to use the 3D glasses.

The screens come from the right of the screen and are diamond shapes. Not only must you move up and down to shoot them as they come across, you must also move your head up and down of the screen otherwise the line of fire can pass behind you a frame of them.

There are four blackboard battles available to you in the game, and these will take out every alien on the screen at once. They should be used sparingly, preferably when the diamonds are coming thick and fast and at all depths.

At 10,000 points the onslaught of diamonds is replaced by waves of alien

regularly resembling Soviet spacecraft in appearance - all trails and missiles. If any alien makes it to your gun, four war spinning cracks will transfer announce the end of the game.

The game is simple in concept and is the 10 glasses that make it special. In case you haven't worn them before, there's one like sunglasses lens and one red, the slightly separating the red and blue components of the picture on the screen, the glasses should simulate a 3D effect.

I've never found the system tedious, but the glasses are fun and also good to wear at parties. In the case of 3 Deep Space they make the graphics shimmer beautifully, but frankly I found it easier to judge the distance of an alien by the separation of its red and blue shapes, and by its size. The further it is, the smaller it is.

Since the gun is the same size as the alien, it makes shooting a matter of pecking on buttons your own gun.

The configuration of keyboard keys used makes the game difficult. Once gained, people will use it after a while. However, the departure from the usual 10 glasses claimed by game is admirable. Some people can feel their eyes with these glasses, and they'll enjoy it. **MD**



GAME: ESCAPE FROM MOONBASE ALPHA
MACHINE: BBC MODEL B
PRICE: £7.95
FORM: PROGRAM POWER
FORMAT: CASSETTE

Good to a software engineer can be like bottom of ocean to a man. It is a rare game that offers genuine excitement. Escape from Moonbase Alpha has the advantage of being a computer game.

It is an adventure game, which starts off with the familiar promise that you have been abandoned on a moonbase that has many rooms and floors. Your only means of escape is to find the Doctor hiding on the seventh floor. **MD**

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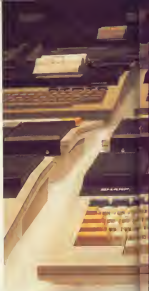
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With the Lightpen connected to your BBC Micro you can draw lines on the screen at your commands simply by pointing to a menu.

Continued on next page

This additional software is available so that all the colours of the RSC Mono palette are available at the top of your page. Computer graphics can be created in colour.

1997-1998 1999-2000

This program is guaranteed to bring out the artist in you. It provides inspiration for users of the laptop and provides

University of Illinois at Chicago

Keywords: child sexual abuse; disclosure; self-blame; social support

[illegible]

© 2000 Blackwell Science Ltd *Journal of Internal Medicine* 247: 395–401

1998-1999



RHILE it's never had a dedicated section, *Rolling Stone* has always had the *Rolling Stone* + *Good* 500 list, giving big acts and releases the nod they will be able to use for the *Rolling Stone* 500 cover.

Flagstone Paving Patterns [at 75](#)
In 1976, Flagstone put construction by walling
stone to rest, paving all the 10-in. and 12-in. stones.

Colinvaite Wagonnet (2015):
I got off at a 10:00 AM and noticed someone in your
transport the same way of the bus, so I was
very close.

1999 2000 2001 2002

Das ist das in ein Programm der Hörsaal-
arbeit zu stellen und auch herabzusetzen.

10. *Journal of the American Medical Association*, 2000; 283: 2689-2696.

1. Is the water assumed to reflect a light beam? If so, how does the water surface affect the light beam? (e.g., reflection, refraction, absorption, scattering, etc.)

2000

This satirical song gives us the younger audience another look at how a strategy battle of 101 and 21. Decided that your way to freedom is ending nuclear war but not ending money in your pocket. Comedians, where you have to defend the north from an invisible south!

1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2625, 2626, 2627, 2628, 2629, 2630, 2631, 2632, 2633, 2634, 2635, 2636, 2637, 2638, 2639, 2640, 2641, 2642, 2643, 2644, 2645, 2646, 2647, 2648, 2649, 2650, 2651, 2652, 2653, 2654, 2655, 2656, 2657, 2658, 2659, 2660, 2661, 2662, 2663, 2664, 2665, 2666, 2667, 2668, 2669, 2670, 2671, 2672, 2673, 2674, 2675, 2676, 2677, 2678, 2679, 26

The system uses the four formed together by the elements of the four-way relationship teaching. Q&A questions may be programmed by the teacher on any non-right-angled areas of 30 square centimeters. Questions and answers can be changed in different ways. The computer will tell the page attention from the data has the correct answer or not, but there is a protection pupils cannot access the program to find out the correct answer. The scores of up to 100 (percentage) is in the open window, and the results recorded the computer.

[illegible]

Only the employees I got the chance to tell
me before they started to die. I have 100 days
to solve this case.

124

Keywords: the Internet; Internet history; Internet usage; the Internet and society; a great number of terms; such and any others; information; Internet; Internet history; Internet usage; the Internet and society; a great number of terms; such and any others; information

Year	1990	1991	1992	1993	1994
1990	1.0	1.0	1.0	1.0	1.0
1991	1.0	1.0	1.0	1.0	1.0
1992	1.0	1.0	1.0	1.0	1.0
1993	1.0	1.0	1.0	1.0	1.0
1994	1.0	1.0	1.0	1.0	1.0

Age Group	Percentage
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45-54	~55%
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SCREEN SCROLL

and deepest floor. For 10 bags of gold to flake you out in his palace bed.

Finding the Dollars involves wandering through the rooms and down stair cases, building or avoiding monsters, collecting gold and conserving your strength and wits. Your strength falls below once you respond.

Being left alone on Mountain Alpha doesn't mean you're going to be lonely. The place is a buzz with things, mainly bad. There's dragons and wizards and creatures that sit on your head and kill you.

There's a robot called Marva, boring people to death and Dora the monster who looks like a TV set on legs and who wants to turn you into a frog.

One way of dealing with such things is to take a Hula pill and get very strong and groggy for a while able to walk through walls.

Hopefully, you'll find money bags there which, if there's no monster around, you can then chuck down a chute into your savings.

The game is full of interesting happenings and characters. Many of the characters seem to be doing part-time work between TV series and as words play out the game just to meet them. Sound effects are good, the game plays rapidly and 3D is visualised with simple but amusing graphics.

And of course the game is a real adventure requiring mental maps to be made.

Escape from Mountain Alpha is packaged nicely but the packaging is shoddy. The program itself has a rare effectiveness. It is witty, interesting and engaging which makes it one of the best I've ever played.

**GAME: GALAXIONS
MACHINE: SPECTRUM 128
PRICE: £3.95
FROM: MINIRO-GEM
FORMAT: CASSETTE**

As you will no doubt realise from the heavily comic way that Mikro-Gem has spelt the title this is simply the Spectrum version of Galaxions, a second-generation Space Invaders which has been around for quite a while and which has been implemented on numerous machines.

Galaxions (okay Mikro-Gem, if you must - Galaxions) are simply Space Invaders that refuse to stay in their neat rows formation, running instead on wiggling down at you from awkward angles and at increasingly faster.

Mikro-Gem's Galaxions are hardly innovative here - in comparison to some I have seen they are positively

stale - and there is nothing really new in this program to add life to what is becoming a somewhat fixed and dated concept.

In fact, I seem to recall a ZX81 game (these Aric, perhaps?) in which the attacking Galaxions were quite new - they were certainly harder to deal with than Mikro-Gem's aliens even though Aric used the limited ZX81 graphics. This version has the advantages of colour and sound.

But if you feel that no-humour is complete without a Galaxion game then I guess that it does need something better concealing.

There's a choice of speeds - fast, normal or slow - and the option of using Mikro-Gem's own joystick. I tried the Kempston stick without success, then hooked up the NGP programme kit joystick, which worked a treat.

In fact, this game is slow enough for keyboard operators. Keys 2 and 4 move you left and right while 0 fires. There's also the fix tip for one or two-player operation.

Competent but unimpaired would seem to be the best verdict. **SM**



**GAME: HELL'S TEMPLE
MACHINE: BBC MODEL B
PRICE: £6.95
FROM: COMPUTER CONCEPTS
FORMAT: CASSETTE**

An android attack is far worse than a mugging. In the game of that name the attack results in you exploding into bits like a shattered vase. This is an arcade style game in the Parents tradition. Trapped in a maze you must defend yourself from a variety of androids by shooting them down or byyng them and blowing them up.

Some androids have a trail of dots, others the occasional trail and eating the latter will restore your energy reserves. If your energy drops to zero you're a goner because the androids will move heaven or you.

The game has 18 levels of play, and if you start on level one, it is theoretically

possible to work your way all the way up. Initially there are just four whole androids, which are things that bounce up and down on hydraulic legs. If they were built in the Clinton factory.

There are not much trouble and exploits after you find that first android appear from eggs laid in the maze and they need those eggs to go down.

As you go on, red and blue androids appear, which are even worse. On being shot a blue splits into two reds and a red into two whites. All this means the maze can get pretty crowded, with a total of 16 white androids in any one level and all of them alive.

The evil android is a yellow lion, called Henry, who floats like the Chrysler Car, disappearing walls and who is totally indestructible. Half of all the dots are eaten will be gone up your score.

The pace of the game is always fast and the action goes up rapidly. At level 18 the maze becomes invisible and with each level there's always some thing happening.

Android Attack has good solid, 16-biter style sound effects and it even requires a certain amount of strategy, though. Variations on arcade games can be tedious and unimpressive, but Android Attack is better than average.

Apart from the rather awkward choice of keyboard keys to play it with the game is recommended. **MD**

**GAME: HELL'S TEMPLE
MACHINE: BBC MODEL B
PRICE: £12
FROM: MINIMA ASSOCIATES
FORMAT: CASSETTE**

Hell's Temple is a huge and complex adventure that claims to be a new trend in adventure programming. It is not recommended for beginners - indeed the cassette case tells us that parental guidance is recommended for children under 16, which seems a bit strange since the average 14-year old is likely to be more experienced than his/her parents in dealing with programs like this.

Hell's Temple is set in the time of the dark ages when witchcraft, sorcery and fear ruled mankind. The player takes the part of an adventurer, one of a strong and gallant breed who fight against the power of evil. Being strong as well as strong and gallant the adventurer decides to go adventuring in Hell.

The program starts with a Hell's Temple Manual Scroll, which provides hints on how to deal with the beastly stuff. A constantly updated status report lets you know how deep into **23**

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DRAGON SCREEN SCROLL

Hell you have poisenated and shown your strength, spellpower, and amount of gold held.

If you wish to stop the game for a moment at a later date, hints are provided. At each stage of the game a 3D view of the temple entrance is given - typing L, R, or F will turn you left or right or move you forward.

On the threshold of each room, the player has four choices: to go inside, to leave, to use the mirror function (this tells you your opponent's strengths but uses up one spell) or to use hammer (this allows you to see beyond the door to check for monsters, flowers, and treasures - it also uses one spell).

If a monster confronts you, you may fight, run a spell, bribe it, or retreat. There are 16 monsters, any of which may tell you. Occasionally the Gods will be so impressed with your bravery that they will regenerate you (minus one month you might have, which the Gods keep as a fee for their generosity). The Survival level means you are venturing to Dom the upper levels, and considerable strength has been gained.

Along with the level comes an invite to join the Hell's Temple Fan Club which will allow adventures in correspondence and exchange hints and tips.

I am still a long way from completing Hell's Temple, but what I've seen I've liked. There are quite nice graphics and, all in all, this is one of the better pieces of Dru software to appear so far. **SH**

GAME: DARTS
MACHINE: AMSTRAD
PRICE: £1.75
FROM: TIGER (EM)
FORMAT: CASSETTE

Why anyone who likes darts would want to read while a cassette program loads up a simulated version of the game is beyond me. You could walk down the road to your local pub in half the time the Amstrad recorder takes to load the program.

On the other hand, if you are under pub age and don't have a dart board that will give a very reasonable feel for what playing darts is like.

Well, almost. Holding a popstick in one goes the same thing as throwing a dart, but the program has some nice touches. The graphics in this game are a delight. The screen displays a magnificent English pub with a clean-cut youth poised to throw - no leather picketed robes in this pub, please.

In the bottom right-hand corner of the screen an enlarged version of the dart board appears, with a clearly fixed

hanging over the bull's eye, holding a dart. You have to maneuver the hand to strike the dart at the middle 20 or whatever.

The joystick controls the hand's movements, but what makes this game difficult is that the hand behaves like a wasp created by someone who's worked his way through 15 pints of beer. It doesn't stay on line for more than a



fraction of a second, so you have to keep adjusting.

There are various skill levels, so that with increasing skill level the hand goes more and more twitchy. Pressing the fire button 'throws' the dart. And just as in the real version, there is a vast hazard which means that if you hit the wire your dart will bounce out.

Up to four players can play at one time, and if you are really bored, you can play against the computer - who will, of course, throw you soundly since it controls the whole thing anyway.

You can choose to play 501, 500, 100, or 1 601, and you can opt to begin with a double, or to aim the double and go straight for more. One pleasant thing about the computer version of darts is that the machine does all the arithmetic - and, really, it. It won't tell you what to aim for, it'll get out, so a make-the-score, say 118. You still have to stir your liver to do that, mind, at least. **TH**

GAME: FLUNDER
MACHINE: SPECTRUM 48K
PRICE: £1.00
FROM: CASE COMPUTER
SIMULATIONS
FORMAT: CASSETTE

Now this one really is fun. The year is 1307, and Spain is financing her Armada by ransoming gold from the Americas back to Europe.

You see, it's just a screen game. You go in to control the sea and grab as much of the Spanish gold as you can. If you can't actually get your hands on it, you can at least sink the ship carrying a wind-powered ship carrying the treasure.

A game may consist of 20 to 140

turns, and there are three levels of difficulty for each to meet at home. The game is won once you have stopped a certain amount of gold from reaching Spain (150,000 gold pieces at the easiest level, 145,000 at the hardest).

If successful, you are knighted and your hand and Francis Drake becomes your cook. Fail and you are humiliated while Drake goes on to write his name in the history books.

To aid you, a year book the Spectrum displays a detailed map of the Atlantic together with copious information on the weather, amount, cash, cargo, men, damage to the ship, number of voyages and defects, number of turns, and so on. When your lookout spots a ship, you are told its type (privateer, galley, trading ship, warship) and you then make the decision to attack or retreat, basing the relative strengths of the enemy and your ship.

If you attack, you can give the option of firing or boarding. In either case, the battle is enacted graphically, with the two ships closing together, and some what stylized planes of water as cannonballs splash into the sea. If the battle looks to be going badly, you can choose discretion and head for the nearest port for repairs or more men.

Winning another ship results in your crew swelling, whereas you are (game money) shrunken out of the service. There are also anchored islands, shore-based ships, and strong winds to investigate. There can be rewards, or disaster.

This is the sort of game for which a computer is ideal, and this particular simulation gave me hours of enjoyment. It's sufficiently difficult to hold one's interest for a long time, and the concept behind it is novel and well thought out. **DM**

GAME: CUTTHROAT DOGS
WALK ABOUT
MACHINE: AMSTRAD 10
PRICE: £5.00
FROM: MICROREAL
FORMAT: CASSETTE

This is an intriguing little game which combines several different traditional snake-type ideas into something new.

At the start of the game, the screen is divided into a large rectangle composed of squares. Unlike an American figure in what looks like a rubber hat, starts at the middle bottom square and, to the accompaniment of a special page starts shuffling up the vertical axis, and wandering along the horizontal axis.

On one hand,
the best all-round performance



Not just because it's a good idea.

After all, you cannot tell what will interest you next until you've tried everything computers have to offer.

But for the less technical, here are a few other important questions:

The amount that you receive for services is important to you, but you may have missed an important detail in the study that's especially important before that if you have investments where you've got a loss without a loss.

The story is similar to Jefferson's argument that 10% minority white population guaranteed that race is not too white to win. I will

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1. *Journal of the American Medical Association*, 1997; 277: 1033-1036.

1. *Journal of the American Medical Association*, 1997; 277: 1039-1043.

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1. The first step is to identify the problem or question that needs to be answered. This involves understanding the context and the specific requirements of the task.

— **Illustrations showing the 3-D position**

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Journal of Management Education 36(7) 809-824

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Chronic pain isn't always common.
It's a long-term condition.

POLYMER LETTERS

Quelle: www.bundesbank.de, 1. April 2014

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Real integer programs in which each
row sums to a constant value are called

Chlorocytus punctatus Thomson is a very common flycatcher, especially common in the open forest with a canopy of 10 metres.

University of Chicago, Chicago, Illinois

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Scott's company's new designed microchip lets, with some modification, on people that only do bad over bad. Scott said they are looking for a way to make the microchip more useful.

So, David Geane contends all that is necessary to make it work is calling the issue "imminent."

It is made from 12 different proteins from dairy sources, together with the most important vitamins and minerals.

Read just the entire paragraph. Write how
you understand the events in the text. You'll
know how you did on all questions before.

And another source of potential complacency is lower complexity. The top 100 in terms of technology content still do not include nuclear, defense, and chemical systems.

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TAPE version - \$19.95
DVD version - \$24.95

SOFTWARE INVASION

ORIC DRAGON SCREEN SCROLL SPECTRUM

The scenario is as follows: Cuthbert is responsible for lighting up the laser lighting post for the arrival of the Imperial chief's star ship. In this age of high technology, the lights up the post one square at a time (by well-known) the way round it.

To complete a square, it is not necessary for Cuthbert to methodically go up across down and round each line in succession. He can wander one side of one square and down the vertical of another quite as he pleases. And he doesn't have to walk. If you want Cuthbert you can be made to pump along all the horizontal in a series of hops by repeatedly pressing the fire button.

There is one drawback to hopping though. Whereas Cuthbert won't walk off the edge of the rectangle, he can be made to keep off the edge. This jumps a line and sends Cuthbert sliding down the right of the screen to his death.

If that was all there was to it, Cuthbert Goes Walkabout would be a distinctly forgettable game. The interest comes in

Oh you one more thing the Monks soon become sinister in their hunting for Cuthbert the longer you take to complete your lighting up of the laser post. Late in each screen a Chert Monksman appears. He seems to be able to bend the rules governing Monksman behaviour and does for Cuthbert rather quickly.

The game has a Hall of Fame which allows you to enter outside after the 10 best scores. **TH**

**GAME: BAMBURGH ATTACK
MACHINE: ORIC DRAGON
PRICE: £7.95
FROM: SECTOR 7
FORMAT: CASSETTE**

This is the sort of tape that appears early in the life of every home computer - a collection of sample games that are not considered commercial enough to be sold on their own. Sector 7's *Bamburgh Attack* is a typical example: a 3D space program, a Bomber game, rough and crones a maths test, a Snake-type game, a blast-the-crooking-alms game, and an extremely simple version of *Pacman*.

There is not a lot to be said about a selection like that - none of the programs are exactly complex. It also looks the odd bag that had slipped through - as in *Obstruction*, the Snake-type game, where the program crashes an alarm when the snakes start hit the border of the screen. The keyboard went completely dead and the program had to be reloaded.

Of the seven games here, I must admit that I found *Laser quake computer*. In this, a missile attacks your ground site that, and you have to destroy the missile if it hits you. It moves closer with each attack and can be destroyed if you have managed to tap enough of its missiles without using up all your available energy.

Of the other games, *Maths Test* would be good for a young child to practice arithmetic - after a correct answer the player has the opportunity to play a simple Space Invaders game.

I suppose the addition would be suitable for giving to a very young child at the same time as he or she gets their first computer - but most kids are familiar with computer knowledge, and are likely to demand something considerably more complex than shows off the Oric's features to better advantage.

The one thing that puzzles me is just why Sector 7 decided to market this selection for the Oric machine alone. None of the programs are so complex

that they couldn't have been sized into 16K, so why restrict the potential market? As usual, let death to me. **SM**

**GAME: HARRIER ATTACK
MACHINE: SPECTRUM 128
PRICE: £4.95
FROM: GORELL SOFTWARE
FORMAT: CASSETTE**

First of all, I must admit to a prejudice against this game. *Harrier Attack* has unpleasant overtones of the Falklands conflict - although, to be fair to Gorell Software, there is no direct reference to Argus, Task Force or indeed the Falklands. But then what would you make of a game in which you take off from an aircraft carrier, fly over an island bristling with defence positions, bomb an enemy base, and then return to the safety of your ship?

Could be coincidence of course - and maybe it is only my uncharitable mind running to prejudicial conclusions. Go on?

Anyway, ethics aside and let's face it, *Warrior* games are hardly noted for their morality, concentrating as they do on wiping out alien bombing crews etc. etc. What do you get for your money?

What you get is an adequate if not spectacular, shoot-em-down game that makes very few unnecessary demands and which - in my view, at least - pulls fairly rapidly.

Harrier Attack begins with your Harrier on an airbase, on the flight deck of an aircraft carrier. Pressing the on-screen control takes you into the skies



the shape of a set of *Marooned*. Mobile enemies who pursue Cuthbert up and down the vertical and horizontal, when they catch up with him, they explode.

Monksmen hunt rather blindly in the early part of the game and can be avoided for the most part. If you find yourself cornered, you can always attempt to jump Cuthbert over them. This works - unless the Monksman is about to change direction from left to right, or right to left, which is not easily predictable event.

I had a little difficulty in controlling Cuthbert when it came to the ability to walk or getting him to stop walking up a vertical and to switch instead of going horizontal. The points of intersection demand precise control.

Every time you manage to complete a square it lights up. The walls of successive square squares that Cuthbert has travelled over turn from black to brown, so it is easy to keep a track of what still needs walking over.



and from this point on it is simply a matter of avoiding or shooting down the various obstacles in your path.

My how and you'll avoid most of the enemy fighters, but will run into a lot of them from the ground defences. Fly high and the fighters will attack as soon.

You have the choice between trying to blast the opposition to pieces or adopting a lower profile and simply taking evasive action. If you elect to fight, you have to make sure that you keep **TH**

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though bombs and bullets to deal with the strong base when you get there.

Points are awarded on a sliding scale with a mere 10 points for hitting an enemy loaded missile, and 750 for shooting down an attacking aircraft. If you get into serious trouble, there is the chance to hit the quit button and bail out — do this just before your plane is destroyed and you'll pick up 1,000 points. Landing safely brings a bonus of 2,000.

There are three of skill levels ranging from 1 to 3, and level 1 is a double — with the enemy tank attacking little more often. As the skill level is raised, enemy guns do more damage and you have to fly faster since you are considered to be carrying more ammunition, and fuel has to be burned quickly to reduce weight.

On screen indicators tell you your speed, how much fuel you have left, and the number of bombs and rockets remaining.

And that's all there is to it. I found *Warner Attack* a disappointment — nothing at all could have been made considerably harder and after bombing the missiles of the enemy base back to the Stone Age a few times, it all became too predictable.

There are some excellent Spectrum games around, most of which make much better use of sound and graphics — your money would be better spent on these.

Warner Attack is also available for the Cric. **SM**

GAME NIGHTRIDER **MACHINE: ORIC AKE** **PRICE: £6.00** **FROM: CIGSOFT** **FORMAT: CASSETTE**

Nightrider is a game for the bigger Cric, which the player has to recover stolen items from an Foundation. The program does not tell you what the Foundation is, members and staff who are now trying to get by. They must be stopped by force — but the player must collect them.

Oring, as it is this machine is an intelligent computer-controlled car. I found the program have anything to do with TV's *Knight Rider* do you suppose? — which provides all the necessary data, maps and so on, and which integrates comments to keep the player on his or her toes.

My main fault to load at just rate — sometimes taking with Cric games — but provided no problems at the 300 baud rate. After loading, the user is invited to wait for a few seconds while the game is set up before being given a brief ex-

planation of the available data — but less strength of the number of items to be found, likelihood of survival and the possibility of persistence.

There are four different maps which the player may consult at each turn. These give details of the terrain, vital four cells against current place at which the stolen items, and the number of items available.

The player, who is assumed to be riding in his snoped up car, the Night Rider, is faced with a series of opportunities most of whom appear to be either

losing rather than a commercial point of solution.

I was not impressed.

SM

GAME: DANGER UNO **MACHINE: BBC MODEL B** **PRICE: £7.95** **FROM: PROGRAM POWER** **FORMAT: CASSETTE**

The object of *Danger Uno* is to make a ticking time bomb before its clock reaches zero. On the way to where the bomb is located you must overcome as many little bits and bobs as possible by running vertically over a 13 x 15 grid.

To get yourself in the same column as the bomb you can slide horizontally across the tiles. This is also a useful move to avoid the shells placed in your way.

As the tiles are set up, it becomes harder and harder to reach the bomb in time. Over six bombs have been defined: the grid is replaced, and the game becomes faster. At the higher levels of the game, stepping bombs are introduced which impede your progress towards the UNO, and must be avoided at all costs.

Danger Uno makes full use of the BBC's graphics and sound capabilities. The animation is very smooth and the movement keys extremely responsive.

As for the sound, you are treated to a Scott Joplin rag as you rush around the board for dear life, as well as the usual explosion noises.

I found *Danger Uno* a refreshing change from shooting down aliens, attempting to find Cossacks, or doing odd things with frogs. It is a mixture of tactics, timing, and reflexes, and it had me glued to the screen for hours on end. A very well written program which I highly recommend. **RM**

GAME: ONE ATTACK **MACHINE: ATARI** **PRICE: £29.95** **FROM: THORNEMI** **FORMAT: CASSETTE**

One Attack is a new departure for a computer game. You are defending your stone castle from the invading Orcs. These are determined little fellows who bang babies against your castle walls and then try to storm up them and eat your head off (literally — if you don't put up a stout defence, you will find your head floating on the ground at the foot of the castle wall looking awfully unedified and gory).

The rules for moving your **P 81**



models or traffic models, there is a difference? — and who all have different strengths.

For example, traffic warden Frank N. Sikes has a welcoming committee of nine cars with guns, while another opponent will be armed with laser-missile rockets.

After the player has been notified of the opponent's strength, the options available are to fight, run, quit the game or to get help quickly. The latter is rather jumping the car over a river to be refuelled, and this helps has to be carefully controlled to avoid oversteering, dials and gauges.

Selecting the 'fight' option simply involves a very minor calculation — you are told your opponent's strength, and all you have to do is select sufficient force to overcome him. Care must be taken at this, as using too much force will kill which is not allowed.

And that's all there is to it — you simply keep meeting opponents, collecting their items if you find them, while maintaining a necessary 1 must admit that I found refuelling quite difficult — in most cases I simply disappeared into the questioned and had to begin again. I don't know what happens when you've collected all the items — I should find out some time before I reached the stage.

Nightrider is hardly a showpiece for the Cric's capabilities — its use of graphics and sound is minimal, and it seems more the type of game that a home user would type in from a magazine.

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TABLE 1

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defender about the castle respects are tricky. The graphics are good, but not good enough, it seems, for the Oric to actually move from the ladder to the castle battlements. In the dragons have learned that once an Oric reaches the top of the ladder and is not instantly visibly maneuvered by you, it can start your total rolling behavior you may be.

This effectively poisons your role battles with invisible Oric and makes his very difficult. At the top of the battlements you can push a sword (which can be swung around using the joystick, to say it's in all his hands).

Alternatively, you can park up rocks from either side of the battlements, or (a and test that for the homocidal sword), you can pour a pot of burning oil over the Oric and wipe out one entire way of attackers. The graphics here depict using the most bloodthirsty, as flames erupt all below the battlements. The dead Oric form a pyramid at the bottom of the screen.

I never missed the missed rocks of ordinary Oric, but, for those whose reflexes are more attuned to this sort of thing, these dragons are only the start. There are Ninja Oric (don't ask what a Ninja is, don't you go to the nearest) who can scale the walls without ladders.

There are also Scarf Warts and paper to Dragon. Trills to be landed off. As if this were not enough, there is a bonus who appears from time to time and wipes the board clean of your life.

The graphics are good and the game has a certain originality and style about it. I won't get out of having my head cut off while waving my sword about to me off, but for the skilled, this game might well have something. **TH**

GAME: MONTECARLO PRINCE
MACHINE: ATARI 26
PRICE: £1.00
FORMAT: MICRODISC
FORMAT: CASSETTE

If you have spent a few 10p coins carelessly behind the wheel of that marvellous arcade racer, removing past cars at incredible speeds with the score sky-rocketing past, you are going to need a good imagination to find this a more even a better sight.

The graphics do not even begin to be comparable. Devoid of that magnificent speed with its 3D feel, you are restricted to no more than a blocky graphics outline of a track, which scrolls vertically down the screen.

But once you have accustomed your self to the fact that there is no contest between the arcade version and the

you should be able to sit back and enjoy the feature that *Montecarlo Prince* has to offer.

Your car stays in the same line on the screen, though you can, of course, move it about from one side of the track to the other. The track itself has inside lanes, and narrow borders, and to grow out of the top of the screen. Other cars move rapidly down screen towards you in groups of between two and four at a time.

Avoiding collisions takes some really painful work. You have a slight degree of control over your speed (pulling the joystick towards you makes for slow speed - pushing it away from you increases your speed). But, 100% to



cutting, between the other cars is tricky, especially if the road happens to narrow just in front of them or forcing you to.

You start each race on the hard shoulder and as soon as you pull on to the track a 100 second timer ticks by. You gain points for all the cars you pass and for the distance you travel round the track. Each time you collide, your car gets crushed over and over off the track. This costs you time and distance, and cuts down your scoring chances, though you can crash so many times as you like. There is no bonus or extra time for doing well.

The game has a very inadequate ball of fame, which sets to the top corner in absolutely small figures, but doesn't allow any initials to be added to identify them. This game looks like a beginning rather than a finished product. A little hard work on the listings should produce a better version. **TH**

GAME: RIVER RESCUE
MACHINE: ATARI
PRICE: £24.95
FORMAT: TOSHI 2600
FORMAT: CASSETTE

River Rescue is a not-so-distant relative of the arcade game where you have to fly a helicopter/plane/rocket over rugged mountain terrain, bombing everything in

right (Australia, reversed, blow is a prime example of the opposite).

The basic skills are very similar, though. There (EM) has brought off a scoring change which makes the thing worth while as a game in its own right. The basic scenario is that, instead of trying to avoid mountain peaks while saving the nation, you are piloting a launch down a river to rescue explorers who have come from the land on the bank.

There are potential various points along the river on both the north and south banks. Bringing your launch to a stop at a north bank only causes an explorer to dash from the page and hop on board. The idea is to collect a line of them and drop them off on the south bank point.

You can land your boat up with as many as nine explorers at a time, but once the launch goes at a great clip and the river is full of bumpy terrain and things to bump into (including dolphins), it is easier to unload them in fact as you get there.

The pace of the boat can be slowed marginally using the joystick, but it tends to shoot off once you signal normal speed. The dolphins have an irritating habit of wagging their tails just as you think you've landed a clear line past them. This, and any other crash, does for your boat, your passengers and you.

In case you think this is all you have to worry about, there is also a helicopter which appears from time to time and warns the water in front of you. The launch is armed and you can blast your way clear - this goes for the dolphins as well, which I thought might let off even if they do prevent the saving team.

If you can keep the throttle full down and avoid crashing into anything, the boat moves on the right hand section of the scrolling display. This cuts down your reaction time, of course, but it gives you higher scores.

All in all, an exciting game. **TH**

GAME: RIVER 1
MACHINE: Oric
PRICE: £12.95
FORMAT: DISC
FORMAT: CASSETTE

You are a fleet commander in the *River Space Academy*. Your mission is to survey in the planet Radox and protect it from the Zargon battle star. Its mode you will encounter various weird and wonderful aliens, who will attempt to destroy your space craft.

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Abstract

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THE CHALLENGE

It's wasn't like some hairy-looking monster chasing you around the Hungarian coast. More, this game would be comparatively easy. But so is it, one of the main challenges is to keep away from the rather strong-looking creature.

The other object of *Sultan's Maze* is to locate the jewels that are scattered in between and around the labyrinths, and then locate points E. Hopefully faster down with jewels to the nearest exit without being stopped by the second monster.

HOW TO WIN

It all sounds rather difficult, which at level 10 it is, but the programme has provided many aids so that you can complete your mission.

The first is a map detailing where you and the monster are located in the maze, and also where the jewels are to be found.

You have 'energy' points each time you refer to the map, but once you have worked out what way you are taking and the N, S, E and W, this 'cost' in 'energy' will prove negligible.

The other help you are given is the 'J' key which allows you to jump through an invisible ledge, or to avoid the creature that is following you, or both.

The best advice, as in most maze games, is observation. Remember where you came from, where you are currently going, and where the jewel and monster are. All of which information comes from the map.

But remember that if you lose too many energy points the jewels will be 'too heavy' for you to pick up and your only way is to not need any more.

VIDEO VERSION?

A simple game that allows you to think about the problem and work it out. It's a game that will frustrate you in several but makes a change from the fast action-packed Space Invader type game.

However, after a time you'll probably remember many of the maze paths, and consequently get pretty bored with the whole thing. But until then...

SULTAN'S MAZE



THE CHALLENGE

Equipped with a laser gun, it is your object to destroy the spawning centipede and make its way precariously down the mountain field. This can startle the spawning centipede, but it is made no less easy due to the unexpected presence of a rather defenseless-looking, bouncing spider who appears randomly to make the inevitable challenge.

Thus the task is to destroy the many parts of the centipede before it destroys you, and to avoid or "bait" the spider, in order to score a victory of points.

As the game progresses the challenge becomes increasingly more difficult. The centipede comes at you at a far greater speed and the fuzzy looking creatures, reportedly they don't appear as more often. It's enough to keep anyone on the edge of their seats.

Other bonuses to get your name on the high score list include making enjoying the mountain field, and fuzzy looking creatures crawling from the centipede itself.

HOW TO WIN

Pay attention to both the centipede and especially the spider, who has a habit of appearing from nowhere when you least expect it.

If you don't have a joystick attached to your terminal, you can't move the laser up and down, but only sideways. This proves to be an attention disadvantage since you are inevitably destroyed if the centipede has a good run down the mountain field, whereas with the joystick you can avoid that by moving your laser gun above the centipede.

At the lower field levels, the spider will not pose such a major problem. Yet at the highest level the spider will take a lot of excitement.

VIDEO TREND

The graphics and sound effects are pretty good as the controls of the arcade game as you get the machine gun sound when tapping the colossal centipede.

It is a very simple game and while of course you could make your highly proficient as a centipede buster. The chance of a joystick could threaten your game and lower your score, but would certainly not detract from the overall enjoyment of the game.

CENTIPE



EDGE



As the next six computer games prove, there's still 1001 uses for a pocket watch.



But when it speeds up, and becomes three and more, it's hard to tell the time.



You're in trouble if you don't keep track - and you have only three the watch.

THE CHALLENGE

The aim in this one-player version of the arcade game is to destroy the enemy command center by piloting your spaceship over rugged terrain, and on the way bombing and firing at enemy helicopters and missiles.

To destroy your air main target, you have to whittle it down your way through eight different sections—each one proving to be more impossible and frustrating than the last.

HOW TO WIN

The totally illogical aspect of this game is that you have to hit every last little enemy plane in order to avoid plummeting into the ground. In the blurb that comes with the game it states that, "you need to destroy the last tanks, to give total fuel." Little did I know it was that vital.

There is no easy answer in suggesting how you can win. One thing to be careful of are the enemy helicopters whose missiles seem to come at you with admirable accuracy. You'll be lucky to conquer all eight stages—which include the exterior storm, the skyscraper city, the cave with honey-beehive-shaped machines, and the underwater battle—then you have to deal with a menacing robot that vital fuel.

The graphics are not as colorful as the arcade version, but the challenge is certainly as big if not better. Although the game is playable on the keyboard, it doesn't make out unless you have a joystick. (The fact that I only could stage through it is a pretty obvious indication.)

VIDEO VENUE

The major problem with the Scramble is the amount of fatalities you have to pay to the final tanks—in the extent that nearly everything else can get ignored. The game is certainly challenging, and to destroy the command center on staff level three will certainly take a lot of practice. Not bad, all things considered.

SUPER SCRAMBLE



IBLE



There's danger ahead, but you're looking good (so far). Watch out for those missiles.



Don't forget the fuel tanks, and make sure those missiles are coming at you instead of us.



Uh-oh! You ran out of fuel—and this is only the way stage. The robots are much faster.

THE CHALLENGE

This is not a game for the sap and spin crowd, but rather a well-voiced adventure in words and pictures. *Pharaoh's Tomb* is most of all a brain-buster, a game you'll need to spend a good deal of time with for a truly worthwhile. There's a stunning Egyptian treasure at stake here, so the time you spend on it will no doubt be worth it. You are an explorer in the land of the Pharaoh, and one who's hot for all the gold and glory that is offered.

HOW TO WIN

Pharaoh's Tomb uses soft-screen graphics to give you a picture of the inside of the tomb AND the command lines to control your characters. The command line is a scrolling text window which displays your questions or commands, and the program's response to them.

To give you the solution would be cheating, but suffice it to say that solving it this game takes a hell of a long time. The program has a limited treasury which includes advice and helpful responses, such as "I don't understand," and, "Yes?"

As the game progresses, you can't see out the hints that lead you from room to room within the tomb. For example, the commands "Go West," or "Go South," or "Move north," or "Walk up/Down" would move you from the Crystal Room to the Sacred Chamber. But you don't really need to know where you're going to get close to the treasure, do you?

The program has a short and repetitive vocabulary that makes the game, from the hints, rather difficult. Just after seeing "Go West" 150 times or more, you're rather bored. Perhaps you're a little bit bored since even the hints are distinctly unhelpful, even though it refuses to give anything to you repeatedly telling you "You need more gold" — which, incidentally, is a hell of a lot of gold.

A feature of the game is that it will save it and take it up where you left off.

VIDEO VERDICT

If you like something that tests the mind and makes you think a lot, then this is the game for you. My complaint is in the lack of language that the computer understands — but that's just my opinion.

PHARAOH'S TOMB



PH'S



You get a preview of the world of the video game's commercial but to watch your clock run.



Here, too, you get a preview of the world of the video game's commercial but to watch your clock run. Ah...



Here's what? "Show the store." What the hell? More important, which was on the screen?

THE CHALLENGE

You are in charge of a firefly robot, and it is your mission to maneuver your red post, quarters, tanks, and home base, and eliminate other dangers and hazards.

The vertical scrolling enables you, if you're good enough, to pass through 34 different screens of such hazards, which are divided into four equal sections, with each screen becoming more and more difficult—or should I say impossible.

HOW TO WIN

Firefly is one of the more challenging games to come on to the market of late. The first section, although you're under heavy fire, will not prove to be much of a problem, since you have plenty of space in which to maneuver, and the enemy cannons are in full view.

In your confusion to get past the first section, be careful not to be too heavy-handed on the joystick, since controlling will be the death of you, and your chances.

The second section is much the same as the first, with the substantial problem of enemy tanks blocking your path. It is the first passage that could prove to be your downfall, since space seems to be at a premium. My only advice here is to keep back and fire as quickly as possible at the phosporans—and you'll still need luck on your side.

The third and fourth sections are the most difficult. These are force fields and dead ends, as well as indestructible tanks and cannons to make your mission a true impossibility.

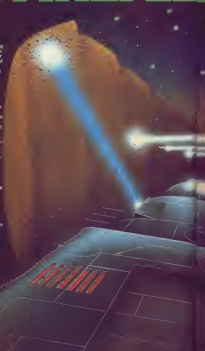
It is at these stages that you'll need a lot of co-ordination and a lot of practice when you run into the dead ends—and furthermore, a lot of luck.

VIDEO VERDICT

A fast rate game that will give you hours of fun. The mission is difficult to accomplish and consequently the game becomes very addictive.

The graphics aren't great and I couldn't find the score chart, but despite these minor criticisms, it's really challenging, game and will certainly give you a run for your money.

FIREFLY



Machine: IBM
 Price: £14.95
 From: English Software Company
 Formats: Cassettes and disc

EET



It's not very hard in the beginning, which sets the pace for the rest of the game. The enemy looks like a tiny robot, and then it explodes.



Now it's getting along here. There's still an enemy, but it's not as hard to kill as the first one. The enemy is a tiny robot, and then it explodes.



It gets tougher, because there are more enemies. The enemy is a tiny robot, and then it explodes. The enemy is a tiny robot, and then it explodes.

THE CHALLENGE

As the game suggests, *Evolution* is a game in which you, the player, control an ever-larger and better thing. You start off as an amoeba and, if you overcome the various challenges, you then evolve into a frog, and eventually into a turtle.

HOW TO WIN

As an amoeba you begin at the bottom of a pool, which has various levels, and the object is to eat five squares, four of which can be eaten at any level. The last one must be eaten at the top level.

Simple enough you might say, but you have a limited amount of time, and there are two species of good and bad fish you must avoid. If you die (the clock, then goes the through to a second round).

Once you've evolved into a fish, it's a match 10 fish with a longer while avoiding a water snake. The fish, who seems to think that you would make a rather tasty meal.

Be warned, then, the frog, and more rather slowly, and there'll be a would be a challenge, such as the the seven and wait for the monkey to get near you—and then, the clever frog you are, waiting.

The challenge of *Evolution* is a difficult one, but don't despair, since, after a period of time, you will find that the first stage and pose a number of a problem.

If you are skilled enough to evolve into an eagle, the challenge then is to evolve a hungry game and avoid to catch 10 fish at the same time.

The fish appear randomly, and as it can happen that you are left avoiding the only for up to half a minute. This 10 fish is a tough task in itself but the fast-moving crab will pose a problem between the turtle and frog.

VIDEO VERMITY

A challenging game that could keep even the most persistent videogame player entertained for hours. As the program indicates, 'This game is for big frogs, not pussy tadpoles'.

There is another program called *Evolution*, where you evolve from an amoeba into a man, and then into a creature of the world.

Both versions of the game are from forthcoming Pro-PCN books, *Atari Programs for the Game 2* by Robert Erdman, Humphrey Walters, Paul Stanley, and Michael Jones.

The book will sell for \$4.95, and the examples for this price and many others will be included in it. You only need your Game 2 and they'll be 1/4.

EVOLUT



TION



Now you're in fairly good luck. Look for about 10 seconds, changing the preliminary life forms, and get to the fishing.



Fish can not stay with the long range view. Stage up the fish before the resupply band stage up you.



Now you're in luck. The fish are at point B. Now you're at the money of the game.

PANIC

"It used to be a nightmare" he announced when you entered the maze of Panic, sleep-eating alienating babies to different levels of a solo attempt to reach the summit.

The best way to survive is to go back to the beds for the first monster to tell you, but more than that, it is necessary to find them before they descend to their deaths. As it may seem, it's not enough, the danger really is not running out. It's simply impossible to reach the summit without it at all.

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DRAGON SCREEN SPECTRUM

second wave consists of Swedish, hovering hanglugs which close on your bar, and (surprise, surprise) drop bombs on you.

If you are fortunate enough to survive the hanglugs with one of your three lives still intact, you must journey through deep space, which in *Spectra* it's not meant to be populated by flying saucers, but on your droptanks.

The programme scenario is probably the most difficult and exciting. You must destroy waves of "parasites" before they reach the ground. If they land on you, they explode — but if they reach ground level, they burrow into the earth and attempt to stick bayonets into the sides of your feet.

Once you have fulfilled your quota of parasites it only remains to destroy the very impressive Zargon Battle Star.

Spectra 1 is an exciting, exotic sight game with fast and colourful graphics. Six levels of difficulty are available, the lowest of which kept me frustrated for hours.

The least spectacular thing about the game was the sound, which was made up of fairly standard "explode" and "shoot" noises.

The however is a minor quibble and one which in no way would stop me recommending *Spectra* 1 as a worthy addition to your C64 games library. **BT**



GAME: GOLF
MACHINE: SPECTRUM 32
PRICE: £5.95
FROM: MURIEL SOFTWARE
FORMAT: CASSETTE

As the blurb on the cassette cover says, "If you like golf, this will be just your cup of tea (the tea) Scots people hate computer golf I assure you it". As for us golf fans, this is one of the better ones.

All it really lacks is a way of lifting the strength of each stroke to some level of skill. The best golf games tend to have a strength measure. This is usually a column which rises and falls rapidly at

the side of the screen. You have to decide at what point in the column's rise and fall you want the shot to be taken. This device gives you a sporting chance at "betting" the odds of what you think the situation demands.

MacDonald's version of Golf is I feel, doesn't have this. Instead, all you can do is select the club or iron number that you want to take. It then allocates a strength to the shot.

The graphics display of the golf course is an on a hole by hole basis as is the custom with such games. And there are the usual water hazards and rough off the fairway. I don't remember there posing anything of an obstacle, so the course must be a Scottish one. The rough certainly has a lot in common with Scottish rough: you have a very slim chance of hitting a good ball out of it.

The computer usually decides that you have topped the ball or otherwise mis-hit it, and it can take a couple of shots to get back to the fairway.

Getting off the fairway in the first place would be too likely if the program didn't have a built in flag and back-scorer which automatically judges your drive (or funny shot) to be off-line from hole to hole.

Putting the ball is relatively simple and is done on the classic golf principle (that is, 10 is mid-iron, 9, 8 is mid-wood, and so on).

Once you are on the green, the score shifts to a close up of the pin and displays the ball's position. You then have to input both the direction of the putt, and the strength of shot. This is more under your control, and once putting becomes easier once you've played a few holes. **TH**

GAME: JUNGLE TROUBLE
MACHINE: SPECTRUM 128
PRICE: £5.95
FROM: MURIEL SOFTWARE
FORMAT: CASSETTE

In the jungle the mighty people would have stayed in the forest. There are only four trees in David Software's jungle as fast as more of a Light Saber-like trouble that's offered. Trouble it is something.

The trees appear at the second level of the game, which has three levels in all and which consists of an assault course which must be covered as soon as possible to reach home.

First, your men collect an axe and has to jump along a line of stepping stones across a river. If he falls in, a crocodile appears, eating happily.

From there, a ladder leads to the



second level, and this is where the ax comes in handy. Your men has to chop down the trees in turn, a task hindered by the axe becoming blunt and a monkey coming to steal it.

If the axe gets completely blunt, you have to go back to the beginning of level one and collect a new one. It is in the course of chopping down all the trees, one branch falls on him, your men climbs another ladder and thence must swing across a set of fire, and make an Olympic leap over a chasm which will slowly poison you.

Jungle Trouble gives you three lives and four speeds to play at, and all movements of your figure are controlled by the various control keys which have been well chosen.

The game is written in machine code, and it shows. It is an attractive game which offers a variety of challenges and a fair amount of initial frustration.

The graphics especially are interesting. In other games figures move about like wooden characters on wheels, but in *Jungle Trouble*, your matchstick men run, leap, jump, and fall as if in a professional animation. You can even study tiny leg movements.

Finally, the monkeys are truly mischievous: they scratch their heads and tap you on the shoulder before they rob you.

In fact, attention to detail is good everywhere. The note of the axe is like those on the bottom of the screen, and you can watch it becoming blunter — until it looks like a rather pointed tooth.

Jungle Trouble is amusing. It clearly demonstrates that being a human like hanglugs is at least as exciting as being a monkey can murder. **WD**

GAME: TERROR-BANTLE
MACHINE: SPECTRUM
PRICE: £4.95
FROM: MELBOURNE
FORMAT: CASSETTE

Prehistorically are huge winged dinosaurs which have not yet in an appearance since the close of the Cretaceous period, 65 million years ago. They used to be

SPECTRUM SCREEN SPECTRUM SPECTRUM

to eat fish. Now at last they're out of retirement on *Terror Droids*, and they are hungry.

Before the laser commences, you are in an aircraft flying over a distant land. Control of the plane is lost as you pass huge black volcanoes. The volcano-sequence approach like shuddering blackpages used in the accompaniment of sinister music you crash and all your guns start.

When the sun rises, the plane is flying broken like a spaceship earth. By a swirling river. From a vantage point on high you notice that red blobs are heading up towards horizon, unless space-control like configurations. They can be shot in with a cannon which can be moved left right, and the range of the cannonball can be altered by changing the cannon between 45° and 75° in the horizontal.

The black terrain off to reveal themselves as *Terror Droids* illustrated in detail and flying at you with speed and an open jaw. Blowing them down in flames can earn 20 or 30 points and during attack 100 points.

If you fail to shoot or avoid a *Terror Droid*, one life is lost, and you must wait all the next day when they appear ahead after dawn. You have three lives in all and if you can eliminate three waves of *Terror Droids*, you will be rewarded on the sixth day.

The game describes itself as 4D—the fourth dimension being time. Since any game not involving time would be a safe bet on the screen, it's an idle claim. However, Melbourne House's use of the three spatial dimensions has resulted in very sophisticated graphics.

When the *Terror Droids* fly at you, they increase in size and they converge. Likewise the cannon balls explode and follow converging trajectories.

There are some strange things about this game. First, two people could play and find that you were already lost into the high score table. Second, I found that the computer itself often launches cannon balls without me being anywhere near the keyboard, and it went on to give higher scores than me.

A good score is over 10,000, but initial

ly scoring is almost a matter of luck. Get as many shots as roughly the right place, and hitting something is a success.

Still, with this game comes slowly which a good business acquirer, creative, no great challenge except performance.

Terror Droids is an unusual variation of the vertical shoot up theme, and it will take longer than average to drive of. **WD**

GAME PASS GO MACHINE: SCORING PRICE: £2.95 FROM: KAYU SOFTWARE FORMAT: CASSETTE

On the back of a box only slightly larger than a hardback novel, the lovely anonymous *Pass Go* is a wonder to a well known board game, where players go a long way and a long time.

The board is a square, along with handpieces and green houses, a chess board on the front cover, and unless you've been brought up by wolves in a remote forest, you'll know exactly what they're referring to.

Despite all this, and the game's title, you never do pass *Go* or collect £200. One to four players move around a circular board where the familiar streets are replaced by a series of shops and hotels as well as jail, chance, tax stops, and so on.

The bank initially owns all the property and charges minimal sums if you land on them. Arrive at the jail stop, for example, and you're obliged to spend £40, whether or not you want to, or not.

If you're lucky, the bank will offer to buy the property, but this is not automatic. If you do, you will collect substantial money from other landing there.

In addition to property dealing, play shows you play the market for gold, land, or shares, the prices of which fluctuate from turn to turn. If you land on the market, why not buy land if the price is low? Then, and the last that a salary of indecently amount owners randomly means that your assets are constantly beyond your control.

Other things are different as well. Instead of going to jail for three turns or paying a fine, you may find yourself committed for five turns, and let out on good behaviour after two. If you are in debt, the bank will lend, but if the debt exceeds, the bank will strip your assets systematically, without any chance of debt with the other players. Also, about my night out.

The object is to gain as much property, and thus as much payment, as possible, and to speculate on the commodity market, until everyone else is lost.

Your position and an inventory of your finances are shown each turn. But best of all, eventually taking the turn itself.

This is where *Pass Go* reveals its what looks like a real time with your game on the side, you actually drive along the street and see the various sites roll past. It's a strange pop-art town the action takes place in, where for example a shop is a pyramid with a flag on it, and *Charlie* is a huge creature which says "Click Bang".

Your drive is accompanied by an infectious, busy tune. This is fine if you feel like celebrating success, but it is positively irritating if you're doing it all badly.

The trouble with the original board game is that if you have slow motion only on the system in time in life, and you gain more and more. If you have to tell back, you're discriminated against, and then fight gets worse.

In *Pass Go* this is rectified, because your chances are awarded. You can find the all-powerful bank taking all the decisions for you.

The two games are different, but the same occasional competitive qualities dominate. The speed, and the graphics and music of *Pass Go* will give you a good time for your money. **WD**

GAME SPLAT MACHINE: SPECTRUM GEM PRICE: £2.95 FROM: INVENTIVE SOFTWARE FORMAT: CASSETTE

Splat is the sound of motion or small animals make when they hit a wall, and it's fairly similar to what the game, packaging does to your eye. The screen has a background of silver, reflecting light in gentle spectral tones, and it demands your attention.

The game itself is worthy of the attention—it's a maze game with a difference. You control Zappy, a character that can be moved left, right, up, or down through a maze where the occasional clump of grass is waiting to be eaten.

Thus far it sounds like *Hungry Horner*, and indeed the sound effects when the grass is eaten are virtually identical. Unlike *Horner*, Zappy has a maze which has many turns larger than the screen.

The screen drifts randomly around the maze, and if you're unlucky enough up with Zappy, he's splattered. This can happen very rarely—when for example he's caught between a maze wall and an approaching screen wall, or if he lingers too long on a grass outcrop. **B-90**



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SCREEN SCROLL

There are seven levels of play, and a progression to the next level is achieved by surviving to the last. The percentage of time elapsed is shown and when it's complete, the Spectrum will surprise you by saying "Yippe", an achievement in itself considering the hard system.

The second level offers plans as well as guns, and the new breed of water in which Zippy swims. On level 3 there's a spin to avoid, and with each level the game moves faster.

Zippy himself is not much of a character, being merely a cross with feet. His qualities are good, quickly losing the water, and it's easy to love him.

If you don't have a Keyboard or ADP joystick you can define your own keyboard keys. This is an idea no real-time other software houses should be forced to adopt.

Intermediate Software are offering a prize for the best score before mid-January, but you'll need no incentive to play this game again and again. It's one of those that keeps you up well beyond bedtime.

If Horace looked you Zippy will answer you with his moving water. Later could well become another classic. MD

and you point it green, and it's easy to miss a bit of the map because of the lack of contrast. And it's possible to get trapped in dead ends on the fourth water, which is the worst problem.

It's a shame there's no indication in the characters — they move around in double-width, except for Horace's fish fingers.



but that shouldn't spoil enjoyment of the game. My main regret was that there weren't any more mazes to explore. *3D Painter* is an uncomplicated game and sometimes the simple pleasures of life are the best. MD

**GAME: 3D PAINTER
MACHINE: SPECTRUM 128
PRICE: £1.95
FROM: CDS MICRO-SYSTEMS
FORMAT: CASSETTE**

Getting a reliable decoder is difficult enough. Imagine how much worse it would be if he had to work with a broken one! on the latter.

In *3D Painter* this is exactly the problem. You are the painter and the job is painting a maze. The maze is not 3D, but it's a more symmetrical shape floating in black space. As you move left, right, up and down, you paint your path in a pretty colour.

The objective is to get to the whole maze and the danger is the android who moves randomly and probably around if he bumps into you, you've died. If you avoid contact, there's another three mazes to paint before you return to the first one.

There's a time bonus for quick completion of the maze, and when that's done to see you're out of a job.

With quick mazes, it's possible to get the android the clip — he's not too smart, and can break right if you without picking up your sword. It's all he's got a heavy club and can't swing past.

You'll find the game easy to grasp, but there are problems — not all of them intentional. The second maze is open

towards you on a sort of hexagonal grid.

You start the game with 50 crew members and it's one of them — not you — that you wipe out each time you make a mistake, which certainly causes real-life military behaviour.

At various stages your ship will be attacked in deep space by the pirates and you are equipped with weapons to deal with this real safety — alternatively of course you can simply run away.

You have to make sure that your shield strength is sufficient to deal with the attackers, and you have navigational aids to enable you to land on the various planets.

This is the sort of game that's fun and easy to play once or twice, but once you have managed to work out possible methods of dealing with the obstacles on each planet, the enjoyment rapidly fades. I found this to be the case with *Time Gate* as well — it soon became extremely tedious.

This genre of games seems to equate quality with length — as long as the program takes an age to complete it doesn't really matter if the content parts even top to match. This is a view to which I have never subscribed, but I may well be on a solitary here — I know people who have been playing *Time Gate* for months and months.

If you fall into this category then *The Black Planet* is for you. SM

**GAME: THE BLACK PLANET
MACHINE: SPECTRUM 128
PRICE: £1.95
FROM: PHIPPS ASSOCIATES
FORMAT: CASSETTE**

The story goes like this. As Starman of the Empire Fleet, the player's task is to rid the space lanes of a group of pirates who are threatening the trading vessels. The pirates, who are based on the Black Planet, understandably feel contemptuous about attempts to deal with them — their planet has no sun, and is thus invisible (I'm not sure how well that ties in with currently established scientific thinking).

There is a way to detect their home world — all you have to do is find the seven parts of the Key, which was broken up long ago and hidden on seven different planets.

As with Quicksilver's *Time Gate*, the instructions for this game are so complex that they have to be used as a separate program before the game program is attempted — a pointer is a great help here to save constant re-reading of the instruction pages.

The instructions tell you about the special possibilities of each planet, and the steps you will need to take to locate the key segments on each. Procedures for segment retrieval take the form of a mildly intellectual exercise — are you planet, for example, you have to out-guess your opponent who is moving

**GAME: INVADER
MACHINE: ORIC
PRICE: £7.95
FROM: ILM SOFTWARE
FORMAT: CASSETTE**

Well, I guess there's nothing like an old favourite. I'd put money on the fact that there's hardly a man anywhere in the world that does not support a version of this tried and tested arcade workout, and ILM's offering means that Invaders is now available for both ends of the line.

I won't waste your time, or test your intelligence by describing *Scor* level — I'm sure that every single reader of this magazine is all too familiar with the basic concept. Suffice to say that the ILM version contains all the elements you'd expect, with the addition of a customising option that enables the player to set the game up as he sees fit of play.

The basic game is pretty much your standard shooter — somewhat slow and rather too easy — but you can vary the speed of the scroll game from 0, which is very slow, to 1, which is near enough impossible and you can vary the **P 91**



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SCREEN SCROLL

speed of the shoveller, bombs, and missiles. You can also vary the volume from 0 (which means no sound at all) to 3 (which is extremely LOUD).

The only thing you can't change is the speed of the scanner that moves across the top of the screen—this enables firing at a very gentle pace and indeed is almost impossible to miss.

You can also speculate whether you want your targets to be invulnerable or

unfortunately this feature is vital.

Movement is controlled via the cursor keys and space bar—and, on my Cric it, least it proved impossible to get the space bar to work properly when it was pressed down with both hands.

The most staggering control of the movement keys and my reactions were just not fast enough to let the space bar correctly and then regain control before being wiped out.

Dinky—or Dinky Kong—has been around for a quite a while now. In this game, the player attempts to rescue a girl who is held captive by an angry gorilla at the top of a series of platforms.

To reach the distressed damsel, it's necessary to climb the ladders that connect the platforms, all the while avoiding the barrels and, in later stages of the game, bombs that are loaded by the omnipotent help.

In addition, there are extra points to be gained by touching the umbrellas that are scattered about, and by moving over the barrels that also appear randomly. These barrels not only score extra points, but also create gaps in the platforms through which barrels and bombs will fall.

Once the top platform is reached, the player can move on to the next level by

in three clusters of movement keys—it would have been more sensible to have had left and right movements controlled by one hand and up/down handled (sorry!) by the other instead of using the Cric arrow keys, which fit with an obvious reason: group left/down and right/up together.

All I ever staged is that you try this game out in your local shop before buying and leave it alone if you find that jumping the obstacles is impossible. RM



wait. Setting everything to the fastest possible speed and choosing invulnerable random makes for an unending, if not particularly playable game.

All in all, I found this implementation supremely enjoyable. It makes good use of the Cric's colour and sound, and the customisation facilities enable the user to make the game harder to play to fit his own proficiency.

I must admit to a feeling of surprise that this version is still with us—insects to have been around for decades and one would think that more games players would want some the figure.

But its wide availability attests to its popularity—and, certainly, if you own an Cric, and you're an invulnerable fan, then you'll enjoy playing this. RM

GAME: DINKY KONG
MACHINE: CASCAD
PRICE: £4.95
FROM: SEVEN SOFTWARE
FORMAT: CASSETTE

Dinky Kong provides an object lesson in presentation—even the first version loaded first time, which certainly makes a change, and their response prompts guide you through loading both parts of the program and tell you which keys to use for movement.

Unfortunately the game itself proved unplayable.

Dinky Kong is Dinky Kong for the 48K Cric. The graphics are well designed and the sound is good. There are nine levels of difficulty and when Adam Sheppard seems to have got everything right, his one factor—and



pressing the up/down key twice in succession while positioned next to either of the two small platform legs.

Points are scored at the rate of 10 for each move, plus 500 for each level crossed, and 500 per umbrella. The player starts with three lives, and one is lost each time a barrel or bomb hits, so if the player falls off the edge of a platform.

A bonus life is allocated at 20,000 points.

I suspect that the problems with the space bar are a peculiarity of my particular Cric—which is a pity, because Dinky Kong looks like a lot of fun, and I would have liked to have reviewed it at some stage.

I think that Seven Software and Adam Sheppard have made a mistake

The success for all this requires an navigational skill a pretty standard, your planet is at war with the Planet Cyclon and you are aware that you are here, but unfortunately for the most important reason of the war, namely a side attack on the fortress of Cronos. All inhabitants south of the planet's capital state of Horizon.

The distance has little significance at least for players with any sort of reflexes, as you are bound to be hit by a rocket, or fly into a mountain avoiding same.

The graphics presented in this game are excellent. I had to take the manual's word for the existence of sliding umbrellas blocking the way, once you have got past a certain number of missiles that scoring to the close point on the cassette folder which serves as the manual, there are such things. You have to blow them open in order to proceed, and they are in some way surrounded by enemy fighters.

If you fly unscathed all through the first swirling corridor, you go to the next level, signalled by a different colour, and are disappointed by being able to take on board less fuel and less ammunition. This means of course that you have to be even more careful in your bombing.

If you equipped the outside game you will have to look at a whole range of games, programs to find a better home computer version than this one. RM

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GAME: SUPER DOG FIGHT
MACHINE: COMMODORE 64 •
JOYSTICKS

PRICE: \$2.95
FROM: TERMINAL SOFTWARE
FORMAT: CASSETTE

Big brother over the vibrant French dogmade and all in a sense, save for the ramble of distant artillery fire and the distant hum of a Commodore circuit board, leading another piece of hardware.

You are the famous World War I fighter pilot, winning, but the program is fast, giving all the while your opponent the evil eye. Terminal Software has decided to make their game arena back 75 years in the name of the fierce dogfight in the air. For once your opponent is not the flying ace Baron von Zax, but whoever you choose to identify with your mouse game playing ability.

But be warned, this is one of the few games where tactics are as important as your reflexes and your hyperactive thumb.

The action is in place on the screen of the screen with what clouds (winging the edges) and two planes (one to and do jockeying for position, and the left). Unlike most popular games, the fire button does not do for mindless fast fire and requires careful use before activation.

The excellent sound effects add to the general feel for the game, and I would recommend it as a very complete and fun two player game. **BT**

GAME: GRIDRUNNER
MACHINE: VIC 20 • JOYSTICKS
PRICE: \$3.00

FROM: LLAMASOFT
FORMAT: CASSETTE

One hundred and fifty trillion years ago with the dinosaurs, found will involve not only making money, but in ability to make it and destroy other droids.

But the complexity of Gridrunner can't wait that long. In it you are in command of a speeding operator in a power grid which is infected by alien droids and your mission is to destroy them. The droids appear in chains, which carry left to right, descending as they do.

In order to stop the grid, you must destroy all the droids which will cause



you an extra ship. It is, however, so fast that simple and there are three distinct dangers for our intrepid LLAMASOFT.

The first is being missed by a droid which will result in the loss of your ship and you will have to use your mouse to try to stop it from being used.

The second danger comes from these droids of the alien, the X/Y Zappers who move along the edges of the grid, stopping every on a fixed and randomly predictable cycle.

The last threat comes from a pod, a pod being what is left when you blast a droid against. These little bunnies stay where the droid was hit and grow old and die, but better for a certain age. Then they send a lot of energy which they direct the grid with the same as returning the focus of their recent blasting.

All three of these dangers can be avoided, since they are understood and a good rule of thumb is to keep on the move within their times you are made.

This is a very fast moving game which demands fast reactions and good level. The graphics are excellent and there is a good, chunky blast from the ship's cannon. All in all a most enjoyable game, but not for those with heart problems. **BT**

GAME: FALCON PARADE
MACHINE: COMMODORE 64
PRICE: \$2.95

FROM: VISION
FORMAT: CASSETTE

If you're of fairly pale and old looks, involves a good number of and a pair of droids, probably, this is not the

game for you. You must be urban and have all your wits about you to stand any chance of beating more than 30 seconds in this fast moving and combat game.

The reason the software has finished loading you will be struck by the very high quality of the 3D effect graphics and the impressive use of background sound effects.

As the pilot of an intercepting fighter you must defend your city from strafing fighter bombers, which fly past at a tremendous rate with a very impressive roar. To give you some chance of something in time you have a radar plot on the bottom of the screen, which shows the targets in bright flashing dots (similar to the classic game Defender).

With limited fuel and ammunition, you must use your skill to clear the skies of hostile craft before landing in tricky maneuvers to collect and return. Should you hang around for any longer than is necessary, you get a temporary demonstration of the big bang theory as your craft is reduced to its component parts by a passing light.

For the really excellent use of graphics, I would award the game full marks and it is, by far, the best Vic 20 game produced yet. **BT**

GAME: SUPER FIGHT
MACHINE: COMMODORE 64
PRICE: \$3

FROM: COMMODORE
SOFTWARE
FORMAT: CASSETTE

Commodore and Intrepid say the bells of its Champions: Grappling, gears, clothes, and bare, say Commodore Business Machines.

You folks, it had to happen: the bit has got its own one-sided band package, complete with judge, bail, and the full laws and energy levels.

There is a lot more something very significant about one game machine, including another, but I leave you to work out what exactly it is.

Having never been a fan of the subject, I invited a couple of legal writing experts who looked it over to their liking, noting that it is, in fact, possible to not a person top of the market.

Personally, I find the concept of gambling without money rather interesting, but the interest shown by the reason suggests that once you have got this bag, nothing short of a full dose of patience will cure you.

The graphics are perfectly adequate, but even if missed the underlying sound of the wheels, not to mention the sound of spinning noise, the pit machines produce when forced to cough up. **BT**

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MANIC MINER

IN EACH ISSUE OF PC GAMES WE WILL BE PICKING A STAR OF THE SMALL SCREEN. WHY NOT DROP US A LINE TELLING US ABOUT YOUR FAVOURITE GAME?



Within a few weeks of release, *Atomic Mouse* was the best-selling computer game in the country, and it deservedly set everything about the presentation of the strange underground tale sparkling quality – the opening scene depicts an idyllic summer's day, while the Spies from 1939 end a bit of Tolstoyevsky and a gameboyhead is shown, with the Red Army's on time to the music.

The Meow Meow of the title is a shop-
called Willy who for reasons best
known to himself goes prospecting
around Barbours. Here he stumbles on
an ancient mine shaft in which is evi-
dence of an ancient civilization.

This evaluation used automatic to assess the new materials for its industry and after a year which scored out all the



combustion. These machines have con-
tinued working under underground
accumulation of gases because of their

Willy makes for a sturdy, if rich – all he has to do is get the goodies to the surface. But that's not so easy, not with poisonous patterns up there and meaner manning robots to contend with. All the while avoiding those nasties. Willy has to collect the keys that are needed to reach the next level.

The graphics are a lot of fun, and Big Nuts has given a choice of bags for movement, but it would have been nice to have a joystick option. The best thing about the game is its off-the-wall humour and references to other games - Willy Nuts himself hunting programs and mutant telephones. (Other than



camels, etc. (p. 77), a King David makes an appearance, and there are attacks from various writers on Eugene's last chapter. Evans left King David for lower nobility. (p. 78)

(Music) *Mo'Nique* is a fine example of the talent and imagination that goes into producing computer games these days. The *Spyglass* is particularly well served in this respect... sounds up about it. Oh's (Dr. Chav - Ed) little wonder seems to attract the best programmers (maybe it's something to do with the potential financial rewards). We've come a long way from *King and Space Invaders*, and *Mo'Nique* shows it is an indication of just how far it's come. EM

1000



**SO YOU
WANT A
GAME OF**

CHESS

THERE'S PLENTY OF CHOICE, SAYS TONY HARRINGTON



Along with all the restrictions of space, sliders, and adventure-type games now being produced for home computers, there are an increasing number of good quality cassette and cartridge based chess programs.

These programs represent a very cheap way of turning a home computer into a reasonable chess playing partner. They cannot provide quite the same feel for the enthusiast as a dedicated chess computer. The dedicated chess machine has the advantage of offering a real chessboard and good sized pieces instead of graphics. But the cassette or cartridge based program has the overwhelming advantage of portability.

The quality of play and the number of features offered vary widely from program to program. And since the programs tend to be specific to particular computers, you might find that you are stuck with a package at this point in time at best, that is unless you find their one

running on a different make of machine.

Spectrum owners can be let the best sword as far as choice is concerned. There are already at least four different versions of chess programs on offer from different suppliers. Amiga Computing has had programs available for the 2001 and the Spectrum for a while now.

Amiga's program is not particularly strong. At last year's 1st European Computer Chess Tournament, at the PCW Show it was the only personal computer program to enter and it came second to last, out of a field of 13.

But as Richard Turner of Amiga points out, Spectrum Chess was somewhat ground under at the tournament by the use of some of the processors it was competing against. The program uses the number player and has a very physical graphics display.

The latest version, Spectrum Chess II, has three options from which the user has to select one to work on the program is loaded. These three are: PLAY AGAINLY, IN, OR LEAVE.

To take the third option first, this provides the chance to load a previously saved position. Typing in 'A' for the second option allows you to set up a position which the machine will then analyse, and 'P' sets up the board for the start of a game.

There is a wide choice of playing level (which sets the strength at which the program will play) - within the overall limitations of the program's design. Usually the longer any chess program has at its disposal to search for moves, the better it can be expected to do. Spectrum Chess II can have its move speed set at anything from one second to 16 hours. The time is listed in its seconds and the time limit for a game must be at least a three digit number (that is, 100 seconds).

Whatever level you choose, you can cut down the computer's playing time by pressing 'P' again. This forces it to play the best move it has found so far. This, or a variant on it, is standard in very nearly all computer chess. ■ 121

CHESS PROGRAMS out of this world

NEW

4000 Stevenson Drive, #1000, San Francisco, CA 94134

Two years of research and development have produced the strongest chess game yet, with 200 levels of play.

4586 Symposium Volume (Chen et al., 1997)

This incredible program takes you through your game. It tells you its move recommendations involve, and contains a large off-camera commentary. The game, based on the 1980s movement by Chess II,

16 JUL 2006

A random 14 chess game trial for novices who wanted a youth game without testing for reading.

Non-spreading version: Spectrum (Chaos) 0.0 40%



NEW

[illegible]

Not only an excellent companion but also
 another fine scholar, beginner
 here to good things.

20 February 1995

A great game of chess for just 19K (25K or 45K Spectrum). Seven levels of play. Analysis and recommended moves.

2016 Change Log

Very popular machine code program, with six levels of play and small size.

[REDACTED] These programs are not available for $\text{R}^2 \leq 0.0001$ ($\text{Adj} R^2 \leq 0$) as we need a non-zero correlation of the
 Covariate and response for prediction to improve.

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^aValues are the fitted means and standard errors.

¹⁰⁰ *Journal of the American Medical Association*, 287 (2002): 2659-2664.

[illegible]

U

Age Group	Percentage of Respondents
18-24	~85%
25-34	~75%
35-44	~65%
45-54	~55%
55-64	~45%
65-74	~35%
75+	~25%

1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2625, 2626, 2627, 2628, 2629, 2630, 2631, 2632, 2633, 2634, 2635, 2636, 2637, 2638, 2639, 2640, 2641, 2642, 2643, 2644, 2645, 2646, 2647, 2648, 2649, 2650, 2651, 2652, 2653, 2654, 2655, 2656, 2657, 2658, 2659, 2660, 2661, 2662, 2663, 2664, 2665, 2666, 2667, 2668, 2669, 2670, 2671, 2672, 2673, 2674, 2675, 2676, 2677, 2678, 2679, 2680, 26

program, and it starts nicely for the opponent's player, who wants the computer to begin on white.

As with all the home computer chess programs I have seen, the notation used to record moves is algebraic. Each square on the board is represented by a letter and a number (A to H along the bottom of the board, and 1 to 8 up and down the side, running from White's Queen's Pawn to Black's Queen's Pawn).

White's King, for example, is at E1 at the start of the game.

The program, of course, has a graphics representation of the pieces and these are moved from square to square by entering the co-ordinates of the square a piece has to move to. A King's pawn opening, for example, is entered as E2-E4.

Invoked moves provide a message telling you that the move is invalid. This has also become a standard feature of chess programs, and is of great help to beginners, since it prevents them from confusing Knight's moves with Rook's moves and so on.

Spectrum Chess II will also recommend moves when it is the player's turn to move. If 'M' is typed then the game can be stopped and stored on to cassette at any point by typing in 'T' (provided the cassette recorder is properly connected, of course). The program allows making an either wing, and recognises we just want pawn captures.

One of the attractive features of the Arco chess machines is that they are able to use the Z801 and the Spectrum's ability to print whatever is on the TV screen directly on to the printer. In this way users can at any time take a diagrammatic representation off the screen. As any chessplayer will know, pieces often turn up in positions such as the start of a good attacking combination that have an analogy in their own right. This is doubly pleasing if:

One weakness is that the original version of the program did not — and I believe the present version still does not — recognise the 50-move/draw rule. This is the rule that if a pawn has been moved and no piece or pawn captured in 50 moves, the game is an automatic draw.

At any time, pressing Q will print all the moves made so far either on to the screen or onto the printer. If the latter is present, up to 20 moves a line are shown on the screen.

There is a fairly complicated set of instructions for setting up positions on the board in analysis mode. Space precludes a full description of the precise way of going about this, but it is not so satisfactory as that in some other programs such as the Cyrus chess program mentioned below. This latter has the standard way of setting up a graphics type chess board via the cursor arrow keys, as we will see.

Further details on Spectrum Chess II from Arco Computing call 0482 753284.

Arco also offers a chess program for the Spectrum called, not surprisingly,

Cyrus. This program has nine levels of play and is written in machine code. It runs automatically as soon as it is loaded, and the first thing the player sees is a graphically displayed chessboard.

Once again, you have the option of either selecting 'P' for play, or choosing to set up the board differently. The program is roughly at the same strength level as that of Arco, though if anything the instructions which come with the cassette are even clearer.

This is a fair economy as a reasonably sized manual can be a great help to a beginner, but for the price of the cassette or (to be honest later) there is little point in graphing it.

In many ways this program is very similar to Arco's. Pieces are moved by entering the co-ordinates of the to and from squares (instead the space is saved by the Arco program) and all legal moves are allowed. It will once again save unfinished games to cassette and X will copy the scenario to a printer.

One major difference was that as



an X-ray mind, instead of a series of complicated inputs for each piece that you want to place on the board, you can use the cursor (S & T) and B to move a flashing cursor around the screen. Pressing the letters K, Q, N, R, B, and P place the King, Queen, Knight, Rook, and so on, on the squares on which the cursor is at that time. C clears the board completely, and X takes you back to the main program.

There are at least two other chess programs for the Spectrum, one by Intelligent Software and one by Glen Palmer. These will be reviewed along with other chess programs in the next edition of Personal Computer Games.

Autogames has a chess program which runs on the Vic 20, and on the Commodore 64. Called Grandmaster, this program comes in a neat box, and despite being cassette based, has a small self-contained manual. The manual starts out by making the introduction — and is for as far as we are concerned — clear to be the world's strongest chess program for home computers.

Compared to the brief back of a cassette-wrapping manual provided by the two packages we have looked at so far, this has eight written pages of instruction. It suits it both the beginner and the experienced player. The begin-

ner will find the rules of the game in Chapter 3.

The Vic 20 version needs an 8K expansion cartridge. Moving the pieces is done by entering square co-ordinates as in the other programs, and to wish those you can choose whether you want to play black or white. Illegal moves are indicated by the program.

One curious feature is that the cursor arrow keys are used to move the whole board about the screen, if it happens to be loaded out of position.

The program can play against itself (commodore 64) and you can set up to 8 foreground and 16 background colours, as well as 4-border colours.

There may be chess players who are more bothered by the appearance of the set than they are with the game. This type of player will appreciate that the two sides may find a somewhat irrelevant. (There is also a command which will turn your board display into a 'looked' spectacle.)

Moves can be taken back, and you can ask the program what moves it would play in your place. There are nine playing levels, ranging from five seconds to two hours, plus a postal chess level where the machine will compute for as long as it seems necessary.

Arco have a chess program, by Larry Arco's Chess (28499) which comes on disk. On the face of it, this looks like a very good home computer chess program. I didn't have time to play a lengthy game against it, but was highly inspired in a lightning game, a performed very well.

Arco's Chess has all the features that one expects of a good chess program. It will recognise all legal moves, including castling and an unusual pawn capture. And unlike some commercial dedicated chess computers, this program will solve a draw either on the 50-move rule or when neither side has sufficient mate risks for a win.

One thing the program will not do, and I suspect this as a real blunder, is to allow pieces that reach the eighth rank to be promoted to a piece other than a Queen. It always takes you to take a Queen. The manual suggests that if you want to look at a complex real game where you have knight promotion, for example, you should use the 'change' facility to put a knight on the square.

This is not the point though, since occasions do arise when, if the computer is not itself considering promotions, other than Queen promotions, the game result will be false. There are pretty rare occasions though, so unless you are an ultra player, it wouldn't let this little flaw let you down much.

There are 17 levels of play, and the program has a large number of features, including an opening library of over 3,000 moves, and the ability to replay a whole game.

The manual not only has the rules of chess, it also has an interesting section on the game's history, and some good advice on strategy and tactics. ■

Visions

SOFTWARE



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■ With six cartridge ports, the mini-expander allows simultaneous use of additional RAM and software cartridges. Two dual ported RAM consoles are included and the unit provides two additional sound channels. The 16K RAM cartridge plugs into either the console or the mini-expander, containing Aquarius™'s 640K operating system.

■ With the ability to memo store the entire graphics and character set of all Aquarius™ at 96 characters is added, the powerful 40 column output allows incorporation of the code page monitor image.



■ Using standard audio cassettes, the data recorder provides storage for programs and information, and allows the use of cassette based software. Incorporating a digital tape scanner and transducer indicator, it operates sequential searching.

■ A large number of games, designed to take advantage of Aquarius™'s sophisticated color and sound capabilities, are available via cartridges that plug into the console's other slots, or through the mini-expander. Casette based games can be used via the data recorder.

■ A wide range of preprogrammed cartridges is available including the LOGO teaching program and graphical word data system via ALPHORD™ and the spreadsheet calculator package, FINCOR™.



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ATTEL ELECTRONICS

AQUARIUS





AQUARIUS

AT UNDER \$50, HAS MATTEL CUT TOO MANY CORNERS WITH ITS NEW AQUARIUS?

It is the run up to Christmas, the competition is getting fierce and game makers become more and more intense. As manufacturers try to outdo each other, the hunt is on for the better selection of things to sell.

Into a field with many established models now comes Mattel with its Aquarius, which according to Mattel, is aimed not only for education, but is also in the forefront when it comes to games.

There is a bold claim and it remains to be proved whether or not it has succeeded.

Features

I should point out from the start that this is a machine that you can add bits to such as printers, cassette recorders, a type of printer called hand controllers, and other optional goodies. These will add to the final cost, and as I found out within weeks of your buying one.

The basic version of the machine has only 4K of RAM, that is memory available to the user. But for an additional £29.95 you can buy the first of several add-ons, namely 16K of memory giving 20K in total.

By buying one of these machines then I would recommend that you buy the extra memory since the difference in price is small and the extra memory is vital.

With the machine you get a power supply cable, TV cable to plug the Aquarius into the back of the TV and an instruction manual.

The main unit is very neatly designed and robust. The 44 key keyboard is in my opinion the only major drawback, since the keys are of the rubber push-button type and do not have a truly positive feel to them. When you press a key you can feel a small click, but there is not a clear enough movement to make it possible to type at decent speed.

An interesting feature of the keyboard is that you can place overlays on it. An overlay is a piece of flexible plastic with holes for the keys, which you can lay over the keyboard. Commands are printed on the overlay and by pressing the correct key and one of the other keys it is possible to have single keyboard entry just like the Spectrum.

On the back of the machine there are a number of sockets. Here you can plug in various peripherals such as a cassette recorder and a printer.

The most important part on the

Aquarius is the cartridge/memory port. When you insert the basic Aquarius this port is covered with a slide in moulding made of black plastic and which fits flush to the top of the computer.

To fit cartridge software or more memory you have to slide the black moulding off.

One important addition to the back of the Aquarius is the cartridge/memory port. For £29.95 you get a unit which incorporates two chips on the top to put in your memory and/or program cartridges, two hand controllers (the game) and two more sound channels to make the total of three.

However, it is not necessary to buy the memory-expander to make use of game cartridges, since the cartridges themselves can slot direct into the back of the cartridge/memory port.

Finally, the last two peripherals are the data cassette recorder and the printer. The data-cassette recorder allows you to store and retrieve data and programs which are held on tape.

You don't have to buy and use Mattel's data cassette recorder and after using it I recommend against it. This is because I had a lot of trouble loading programs from tape.

Attempting to adjust the tone and volume levels won't help either since there are no controls to adjust.

The printer from Mattel will allow you to print both graphics and text, it is also possible to dump the contents of the screen to the printer by using the save command.

The printer is of the thermal type which means that you need to use a special type of paper.

In use

For the purpose of this review I covered the 4K Aquarius with 16K add-on RAM, a data-cassette recorder, a printer and a memory-expander (with hand controllers and various prices of software).

Once everything was set up and the Aquarius turned on, I tried some prog. starting. The Aquarius is programmed in Basic and the easiest on the machine is a Maths drill.

The Aquarius is a machine which can produce sound and colour, and to be frank, Marston Basic was not designed to handle them. The result is a mess. To get the machine to produce any of its colours you have to go through a

process of finding memory locations. There are no real colour commands.

The graphics are not much better either. With game machines it is important to have good graphics and with the Aquarius this is not the case. In most you have block graphics and this means that resolution is sacrificed.

You do however have quite a large number of graphics, shapes to choose from in the character set and these will have to do since you cannot define your own shapes.

The entering of Basic programs is not so easy. Trying to enter a program of any real length proved to be frustrating due to the odd key keyboard. Certainly it is no better than the Spectrum keyboard.

If when entering a line you make a mistake you should correct it before you hit the return key, since there are no facilities to delete or change a line after it has been entered.

The only source of action if you have made a mistake is to retype the line. In my opinion this is not good enough and Aquarius should have included editing facilities.

Software

At present there is not much software available for the Aquarius, although more is promised. The software I did get was in cartridge form - which is good if you want less access to the game or whatever, but bad since as cartridge software costs more than cassette.

Of the games I received for the Aquarius, *Snails* and *Two Grumpy Doves* were the best considering the graphic limitations of the machine. But after using them, for a while, they lost their interest and raised very real selection queries.

One British company is producing cassette based software for the Aquarius is Apogee-type Software (see page 24).

Verdict

When buying a machine cost can be a major factor, as the cheaper the better, but it is the most important criterion.

Matel have cut so many corners that in the opinion of this reviewer the result is a machine that is not worth the cost. It is a machine that you can think of, but you will be better with a machine that is limited in sound and graphics.

Name: Mattel Aquarius
Manufacturer: Mattel
Available: Now

Left the Aquarius has a choice of memory expanders, hand controllers, and other useful bits including keyboard overlays (last right), but the keyboard (lower left) does not have a positive feel which makes for slow speed.

WE HAVE FINALLY REVEALED THEIR SECRET...



...the name
of the game

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ELECTRON

THE ELECTRON IS A GOOD CHRISTMAS CHOICE FOR BOTH GAMES AND EDUCATIONAL USES

To major problems with any part of a machine is to buy that machine in the first place. The difficulty lies in choosing a machine that will not only provide entertainment through the playing of games and so on, but also finding some educational value.

The BBC micro was designed with these two aims clearly in mind. The Model B is quite expensive and costs nearly £400. Moreover, it has many facilities that are not generally used — such as the large number of expansion ports — and for a school kids machine it has more facilities than necessary.

The exception here this Christmas is the Electron.

Presentation

The Electron comes in a sturdy package which holds the Electron, the power supply, TV lead, two manuals and a cassette of example programs. No cassette leads are provided, but they are easy to obtain from most good 5 1/4" dealers.

The Electron itself is a very neatly designed unit. It looks good and while not smaller than its keyboard is still easy to use. The keyboard is of very high quality with proper spacing keys, unlike the outdoor push button type found on some machines.

To the left of the keyboard is a rotated yellow light which is there to indicate if you are on upper or lower case. On the top of the keys is printed the standard QWERTY alphabet while on the front of the keys are printed basic keywords and some commands.

That it is possible to enter basic commands by pressing the controls key and the keyword key at the same time. This single keyword entry was first used on Sinclair's ZX80 and ZX81, but on the Electron it is optional. Typing out the word or full phrase the same result as you have hitherto of both ways.

On the side of the Electron are the sockets to connect the Electron to a cassette recorder and a PS at 1000 Hz. The power supply socket is to the right of the machine, well away from the other sockets.

One thing that is missing from the design of the machine is an ejection switch. If you wish to turn the machine on or off, then you have to either remove the 13-amp plug from the wall socket, or remove the power plug from the Electron. This I am sure will cause more or less pain by

disappointed to find that the Electron has no ports to which to attach peripherals. But what you do have is an edge connector at the back of the machine and here no Acorn programs will be affected, several add-ons which they become available.

Features

Although the Electron is simpler to the BBC Micro, it must be regarded as very much a cut down version of the BBC, so don't expect all the features of its big brother. However for £199 you do get a high resolution colour computer with sound as well as a sophisticated BASIC.

As far as graphics and text is concerned, the Electron can operate in one of up to seven modes, numbered 0 to 6. Depending on what mode you are in you can have more or fewer colours and higher or lower resolution. The table shows the different combinations.

It's important to note that the different modes take up different amounts of memory and since there is only 128K of RAM that is available to the user you have to be sure there is enough room for your program as well as the information stored on the screen.

Sound is also provided for, and this is achieved through the three commands, notes and rhythms. There is only one channel for sound so you can only play one note at a time. Thankfully you can alter the volume and this will no doubt save some parents' tempers.

Altogether, the product is quite sophisticated and there is something for everyone — except spiders. To be level against allow you to move objects about the screen with the movement of keys and it is a pity that BBC Basic never incorporated them.

Game players will love the basic that is on the Electron. It's fast and structured by its nature. It is perfectly feasible to write games in basic without having to translate into machine code.

There is one problem with the Electron implementation of basic in that the machine rate of different speeds in different modes. Supermarket software authors will program around this, but it might prove to be a bit of a problem for

those who wish to convert programs from the BBC micro to the Electron.

Software

The Electron will run some existing BBC micro software, but there can be a few problems. The BBC micro uses an extra mode, mode 7, which serves a lot of memory, but the Electron doesn't support this. This means that if you try to run some BBC micro software that uses mode 7, then all you will get is garbage on the screen.

The software houses who produce software for the BBC micro will no doubt be busy converting their programs to run on the Electron. This is all in the good for Electron buyers since there already is an abundance of software for the Micro.

In the meantime Acornsoft are to produce a number of games for the Electron which should be available by the time you read this. I understand that the first few items of software will mainly be of the arcade variety.

Meanwhile, Transwarp Computer Solutions of Seven Sisters Road, North London, have already produced two text-based adventure games for the Electron, and these will be marketed by Softbox.

Verdict

Much has been said about the Electron being a cut down version of the BBC micro and it has to be said that it is. What is not being emphasised enough is that this is still a very sophisticated machine for its money.

With the option of some extensions it doesn't look like any particular price range then calls for the good.

As general you can either buy a machine under a hundred pounds which has some features but not others, or you can go for an expensive machine at £400 onwards. In my opinion the Electron is what a home computer should be, and with the facilities it has to offer, the price is not high. **4**

Name: Acorn Electron
Manufacturer: Acorn Computers Ltd
Available: January 1984

Mode	No of Characters	Pixels	Colours	Memory
0	80x32	640x256	2	20K
1	40x32	320x256	4	20K
2	20x32	160x256	16	20K
3	80x24	640	2	16K
4	40x24	320x256	2	16K
5	20x32	160x256	4	16K
6	40x24	640	2	16K

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PEG

[illegible]

DAMBUSTERS

Disk I

```

_155 IF RND(1)>.6 THEN S=F+INT(RND(1)*1-.5)+
INT(RND(1)*1.5)
_157 IF RND(1)>.4 THEN S=G+INT(RND(1)*1.5)+
A G: S(1)=INT(RND(1)*1.5)
_159 IF T=HT THEN P=P+1: S=1: A=A+1
_170 IF S=F THEN S(1)=A+1: S=-1: HT=HT+3
_180 IF A=7 THEN GOTO 350
_190 GOTO 100
_200 K=173-178: I=CURSET 19,171,0: DRAW(1) G4
1-17,-K,1
_210 CURSET 230,171,1: DRAW(1) G4-200,-K,1
_212 ZAP(1) S=S+1
_213 CURSET 19,171,0: DRAW(1) G4-17,-K,0
_214 CURSET 230,171,0: DRAW(1) G4-1-200,-K,0
_215 IF S=K THEN IF Y=F THEN GOTO 300
_220 RETURN
_230 CURSET G4,F40,0: CHAR 70,0,1: EXPLODE:
CURSET G4,F40,0: CHAR 70,0,0
_240 S(1)=0: PRINT: PRINT TAB(1): "SCORE: "100
: PRINT TAB(1): "HI-SCORE: "100: GOTO 70
_250 EXPLODE: IF D(1)=0 THEN GOTO 320
_260 CURSET G4,171,0: CHAR 70,0,0
_261 CURSET G4,166,0: CHAR 70,0,0
_262 LEX=LEX+1
_265 D(1)=0: GOTO 70
_270 CURSET G4,179,0: CHAR 77,0,0
_280 LEX=LEX+2
_290 GOTO 70
_400 PRINT: PRINT: PRINT "GAME OVER -- PRESS A
NY KEY TO PLAY"
_405 IF S(1)=0 THEN H=0
_420 GET M: TEXT: RESTORE: GOTO 10
_499 REM
_500 M=4000+19100: FOR I=0 TO M-50
_501 READ V(1) P(1), V(2) P(2)
_502 LEX=S(1): S=0
_503 DATA 0,0,0,10,0,0,0,0,0,0,0,24,24,0,0
,0
_504 DATA 0,0,0,50,50,0,0,0,0,0,0,60,60,60
,0,0
_505 DATA 0,0,100,120,120,120,0,0,0,0,204
,204,204,204,0
_506 DATA 73,10,73,37,10,17,10,17
_507 DATA 100,00,00,219,219,00,50,100
_508 DATA 0,0,0,0,62,0,0,0,0,0,24,200,60,0
,0,0
_509 DATA 0,0,1,200,37,0,0,0,0,0,100,200,1
04,0,0,0
_510 END " d m "
_511 REM I=1 TO M: S(1)=MID(M,1,1): NEXT I
_5120 RETURN
_6000 FOR A=1 TO LEN(M)
_6010 CHAR ASC(MID(M,A,1)):0,1
_6020 CURMOV A,0,0
_6030 NEXT A

```



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DAMBUSTERS

Disk I

```

_6240 RETURN

_7820 FOR I=1 TO 8 STEP-1
_7830 CHAR ASC(150+100*M,117,B,1
_7840 CURSOR A,B,0
_7850 CHAR ASC(150+100*N+1,117,B,1
_7860 CURSOR -A,B,0
_7870 NEXT I
_7880 RETURN

_8000 PRINT" D A M B U S T E R S "
_8010 PRINTPRINT"THE YEAR IS 1940. YOU ARE
IN CHARGE OF A POWERFUL BEAM WEAPON")
_8015 PRINT" WITH WHICH"
_8016 PRINT"YOU ARE TO PROTECT A DAM FROM T
HE BOUNCING BOMBS "
_8017 PRINT"OF THE ATTACKERS. THEY HAVE SEV
ERAL LANCASTER BOMBERS WHICH "
_8020 PRINT"LY TOWARDS YOU AND RELEASE
THEIR DANGEROUS BOMBS."
_8022 PRINT"HOWEVER, YOUR TASK IS NOT THAT
SIMPLE FOR YOUR WEAPON IS UNABLE "
_8024 PRINT"TO REACH THE LANCASTERS SO YOU
MUST JUST SHOOT AT THE BOMBS INSTEAD."
_8026 PRINT"YOU CAN MOVE YOUR CROSS HAIR SI
GHTS WITH THE CURSOR KEYS."
_8028 PRINT"PRESS ANY KEY TO CONTINUE"GET
AN:CLS
_8030 PRINT"EVEN ADJUSTING THE SIGHTS IS HA
RD BECAUSE THERE IS A STRONG WIND"
_8032 PRINT" WHICH CAUSES YOUR SIGHTS TO M
OVE ABOUT."
_8040 PRINT"FIRE YOUR BEAM WITH THE SPA
CE BAR"PRINT
_8050 PRINT "BECAUSE OF THE POWER OF YOUR W
EAPON AFTER 3 SHOTS IT IS EXHAUSTED "
_8055 PRINT" UNTIL THE NEXT BOMBER ATTACKS
. YOUR BATTLE IS OVER WHEN TOO MUCH "
_8067 PRINT"WATER HAS POURED THROUGH THE BR
OKEN DAM."PRINTPRINT
_8080 PRINT"PRESS ANY KEY TO START"GET AN:
CLS:RETURN

```

CHESHIRE CATS

48K Spectrum

The much-loved 'ten-up' game which had to be created from 66 Programs for the ZX Spectrum by Paul Banks/PCN due to its length. Cheshire Cats is a deep-space game with hundreds of cosmic aliens to fight with your laser and, if severely threatened, you can resort to a hypertime disappearing act.

```

1 BORDER B: PAPER B: INK P: C
1011-7811H A248A-253 AND p=1511
11 IN A248A-254 AND p=1541-7811H
A242B-254 AND p=1541
120 PRINT AT 11,154 INK 5:CHNR
P
140 IF IN A242B-254 THEN GO SU
E 4000
150 IF b THEN IF IN A242B-253

```

CHRISTMAS IS JUST AROUND THE CORNER SO

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Available for the Atari 2600 and Atari 5200

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BLACK CRYSTAL



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CHESHIRE CATS

48K Spectrum

```

THEN GO SUB 1888
188 GO SUB 1888
189 IF ATTR (x1,15)+35 AND ATTR
(x1,15)+17 THEN GO SUB 1888
190 LET t1=t1+1: PRINT AT 8,28:
PAPER 3: INK 8:ti": %: IF t1=8
THEN PRINT FLASH (t1,8,25):ti
t1+1: GO TO 1888
191 IF t1=15+27 THEN GO SUB 2
1888
199 GO TO 188
200 LET y=y+2: LET a=a+2: IF y
=21 THEN LET y=1
210 IF a=21 THEN LET a=0
220 PRINT OVER (t1,y,x1):a"
(t1,y,x1):a" BRIGHT (1 INK
(t1,y,x1):a" INK (t1,y,x1):a
"
230 LET y1=y: LET a1=a: RETURN
240 LET y=INT (y+RND(1.5-RND(1.
5): LET a=a+2: IF y=21 THEN LE
T y=1
250 IF y=0 THEN LET y=20
260 IF a=20 THEN LET a=0
270 PRINT OVER (t1,y,x1):a"
(t1,y,x1):a" BRIGHT (1 INK
(t1,y,x1):a" INK (t1,y,x1):a
"
280 LET y1=y: LET a1=a: RETURN
400 LET y=INT (y+RND(3-RND(3):
LET a=INT (a+RND(3-RND(3)
410 IF a=0 THEN LET a=20
420 IF a=20 THEN LET a=0
430 IF y=20 THEN LET y=1
440 IF y=1 THEN LET y=20
450 PRINT OVER (t1,y,x1):a"
(t1,y,x1):a" BRIGHT (1 INK
(t1,y,x1):a" (t1,y,x1):a"
460 LET y1=y: LET a1=a: RETURN
500 LET y=y+2: IF y=21 THEN LET
a=a+INT (RND(7)+3): LET y=20: IF
a=20 THEN LET a=INT (RND(5)
510 PRINT AT (y,x1) OVER (t1):a"
(t1,y,x1):a" BRIGHT (1 INK (t1,y,x1):a"
520 LET y1=y: LET a1=a: RETURN
600 LET d=0
610 IF d=5 THEN LET y=INT (RND
RND(1): LET a=INT (RND(20)+1): L
ET d=0
610 LET y=y+INT (RND(2-RND(2):
LET a=a+INT (RND(2-RND(2): IF y<
1 OR y>20 OR a<0 OR a>20 THEN L
ET d=5: GO TO 610
620 PRINT OVER (t1,y,x1):a"
(t1,y,x1):a" BRIGHT (1 INK
(t1,y,x1):a" (t1,y,x1):a"

```

```

420 LET y1=y: LET a1=a
430 RETURN
700 LET y=y+INT (RND(2-RND(2)+1
(t1,y,x1):a" LET a=a+2
710 IF a=20 THEN LET a=0
720 IF y=20 OR y=1 THEN LET y
=1
730 PRINT AT (y,x1) OVER (t1):a"
(t1,y,x1):a" BRIGHT (1 INK
(t1,y,x1):a" INK (t1,y,x1):a
"
740 LET y1=y: LET a1=a: RETURN
800 LET y=y+2: LET a=a+2: LET
d=d+1: IF d=20 THEN LET d=0
LET a1=a1
810 IF y=1 THEN LET y=20
820 IF y=20 THEN LET y=1
830 IF a=20 THEN LET a=0
840 PRINT OVER (t1,y,x1):a"
(t1,y,x1):a" BRIGHT (1 INK (t1,y,x1):a"
850 LET y1=y: LET a1=a: RETURN
900 LET y=y+2: LET a=a+2
910 IF a=20 THEN LET a=0
920 IF y=1 THEN LET y=20
930 IF y=20 THEN LET y=1
940 IF RND(1.5) THEN LET d=d+1 A
ND d=0: LET d=d+2 AND d=0: I
F RND(1.5) THEN LET d=d+1
950 PRINT AT (y,x1) OVER (t1):a"
(t1,y,x1):a" INK (t1,y,x1):a"
(t1,y,x1):a" (t1,y,x1):a"
960 LET y1=y: LET a1=a: RETURN
1000 LET a=0: PRINT PAPER 3:
INK (t1,y,x1):a"
1005 IF p=148 THEN LET q=124:
LET a1=a: LET f=70: LET g=0
1006 IF p=148 THEN LET q=120:
LET a1=a: LET f=70: LET g=70
1007 IF p=148 THEN LET q=120:
LET a1=a: LET f=70: LET g=124
1008 IF p=147 THEN LET q=120:
LET a1=a: LET f=70: LET g=70
1009 IF p=148 THEN LET q=123:
LET a1=a: LET f=70: LET g=0
1010 IF p=147 THEN LET q=119:
LET a1=a: LET f=70: LET g=70
1011 IF p=150 THEN LET q=119:
LET a1=a: LET f=0: LET g=110
1012 IF p=151 THEN LET q=119:
LET f=80: LET a=70: LET g=70
1020 PLOT OVER (t1,f):DRAW F
LASH 8: OVER (t1) BRIGHT (1 INK (t1
g): BEEP .005,20
1040 IF ATTR (y,x)+27 OR ATTR (y

```


CHESHIRE CATS

AMK Spectrum

```

1410=47 OR BTR (y+1,x)=47 OR A
TR (y+1,x)=47 THEN LET hit=1
1450 PLOT OVER 140,41: DRAW 0
VER 140,7
1460 IF hit THEN GO TO 2000
1470 IF b=8 THEN PRINT FLASH 1
1480 B,140"SC":b: GO TO 4000
1120 RETURN
2000 PRINT AT y,x OVER 140,141
AT y+1,x+1:21
2020 LET 1400: LET 1400: PRI
NT AT 8,3: PAPER 5: INK 5:nc
2030 OVER 11: BRIGHT 1
2040 FOR i=1 TO 4: FOR j=1 TO 2
2050 IF y+1=1 AND x+1=2 THEN
PRINT INK 1:140:AT y+1,x+1:41
,11
2110 IF y+1=21 AND x+1=2 THEN
PRINT INK 1:140:AT y+1,x+1:41
2,11
2120 IF y+1=1 AND x+1=21 THEN
PRINT INK 1:140:AT y+1,x+1:41
1,21
2130 IF y+1=21 AND x+1=21 THEN
PRINT INK 1:140:AT y+1,x+1:41
42,21
2140 REEF .005,1:141: NEXT i: RE
X i: OVER 11: BRIGHT 2
2200 PRINT AT 11,15: INK 5:140
2
2210 IF b=8 THEN PRINT FLASH 1
140,140"SC":b: GO TO 4000
2220 LET t=INT (RND*10): LET y=
INT (RND*20): LET x=8
2230 LET y1=y: LET x1=x: LET t1=
t
2240 IF t=3 OR t=2 THEN LET a1=
11+"jk": LET a1:1="jk": LET a1=
25 AND t=3:118 AND t=3:
2250 IF t=4 OR t=5 THEN LET a1=
11+"n": LET a1:1="n": LET a1=
25 AND t=4:118 AND t=5:
2260 IF t=6 THEN LET a1:1="r":
1 LET a1:1="r": LET de=0: LET
a=30
2270 IF t=7 OR t=8 THEN LET a1=
11+"r": LET a1:1="r": LET a1=
25 AND t=7:120 AND t=7: LET de
=0: LET a1=2
2280 IF t=9 THEN LET a1=0: LET
de=2: LET a1:1="i": LET a1:1=
"i": LET a=20
2290 PRINT OVER 11: INK 40:AT y,x
140:11:AT y+1,x+1:21
2300 RETURN
2310 LET 1400:120 AND x=15:14

```

```

1401
2310 PLOT 4,121-y1:0: DRAW INK
5: OVER 11:124-41/2,104-121-y1:0
1/2
2320 REEF .02,20: DRAW INK 5: 0
VER 11:124-41/2,104-121-y1:0:1/2
2330 REEF .02,20: DRAW INK 5: 0
VER 11:124-41/2,104-121-y1:0:1/2
2340 REEF .02,20: PLOT 4,121-y1
0: DRAW OVER 11:124-41/2,104-12
1-y1:0:1/2
2350 REEF .02,20: DRAW OVER 11:
124-41/2,104-121-y1:0:1/2
2360 REEF .02,40: DRAW OVER 11:
124-41/2,104-121-y1:0:1/2
2370 GO TO 4000
4000 LET 11=11-20: LET 11=11-20
PRINT AT 8,30: PAPER 5: INK 5:1
11: IF 11=0 THEN PRINT FLA
SH 140,140"TE": GO TO 4000
4010 FOR q=7 TO 8 STEP -1
4020 PRINT AT 11,15: INK 5:140
5
4030 REEF .02,0:0: NEXT q
4040 PRINT AT 11,15: "
4050 FOR i=1 TO 5: FOR q=1 TO 10
: NEXT q: GO SUB 1410: NEXT i
4060 FOR q=7 TO 8: PRINT AT 11,1
5: INK 5:140: q: REEF .02,0:0: N
EXT q
4070 RETURN
4080 FOR q=1 TO 7
4090 FOR i=1 TO 21
4100 PRINT OVER 11: PAPER 5:AT x
,0:1
4110
4120 REEF .005,30: NEXT i: NEXT
q
4130 PRINT AT 0,11: "GAME OVER":
PAPER 2: INK 5:AT 8,0: FLASH 1:
50:1nc
4140 IF 1400 THEN GO TO 4000
4150 LET 1400: PRINT AT 11,11: "
ALL DONE - A NEW HIGH SCORE"
4160 PRINT AT 13,41: "PLEASE ENTER
YOUR NAME:" INPUT a1: FOR i=1
TO 20: NEXT i: GO TO 4070
4170 PRINT AT 11,11: "THE HIGH SC
RE IS "140" POINTS."140,11:11
1"1nc
4180 PRINT AT 14,21: "PRESS ANY KE
Y TO PLAY AGAIN."
4190 IF INKEY="" THEN GO TO 40
00
4200 REEF .3,40: OLS : GO TO 20
7000 LET 11:11=11: PRINT PAPER 5

```

CHESHIRE CATS

Atari Spectrum

```

1 INK $0:AT $,12:10:
2010 FOR I=1 TO 51 FOR G=144 TO
151
2020 PRINT INK RND#4+3:AT 11,15
1000 G: BEEP .12:1
2030 NEXT G: NEXT I
2040 IF 11=0 THEN PRINT FLASH:
:AT $,10:11:11:11: GO TO 2000
2050 PRINT OVER 11: INK 7:AT $,=
12:11:AT $+1,11:12:11: OVER $:AT
11,15:1 "
2060 GO TO 2000
2070 FOR $=1 TO 40: PLOT RND#255
,RND#167: NEXT $
2080 DIM W$12,27
2090 LET P=144
2100 LET L=0:000 LET S=100: LET
W=0
2110 LET L=L+S: LET S=S-S
2120 PRINT PAPER $: INK $:AT $,
$1:SC: LI: SH: TI:
"
2130 PRINT PAPER $: INK $:AT $,
$1:AT $,12:11:AT $,17:11:AT $,2
11:1
2140 BEEP .1,0
2150 GO TO 2000
2160 CLS : PRINT PAPER $: INK $
:AT $,1:"CHESHIRE CATS AND OTHER
MASTERS"
2170 PRINT INK $:"" Program
design & software"" By P
AUL STANLEY."
2180 PAUSE 200: CLS
2190 PRINT ""THEY PLACED ME IN
SPACE."" WITHOUT ENGINES, JUST A
LASER."
2200 PRINT ""SHEET THE MASTERS
"" THEY SAID, ""I'D LIKE TO SEE
THEM DO IT."
2210 PRINT ""THEY LEFT WITH
RIGHT WITH ,WAS MY INSTRUCTION

```

```

G."
2220 PRINT AT $,14: INK $: BRIGHT
7: LI:AT $,30:12
2230 PRINT ""THEY TOLD ME TO BL
AST 'EM WITH ,AND THAT IF I GOT
INTO TROUBLE,I COULD PRESS ."
""GOD ONLY KNOWS WHAT IT DOES."
2240 PRINT INK $: BRIGHT:AT 1
1,31:1:AT 13,14:10
2250 PRINT ""PLEASE HELP ME""
""IF YOU'RE PREPARED TO, PRESS A
MYKEY...."
2260 IF INKEY="" THEN GO TO 22
00
2270 BEEP .3,60
2280 CLS
2290 RESTORE 1 FOR W=USR "a" TO
USR "u":7
2300 READ W: POKW $,0
2310 NEXT W
2320 DATA 0,0,42,42,42,42,42,42,
0,10,36,72,144,144,72,40,0,0,202
,120,202,120,202,0,40,72,144,144
,72,36,10,0,42,42,42,42,42,42,0,
0,12,10,37,73,10,36,72,0,0,43,1,
200,1,43,0,0,0,72,36,10,73,37,10
,12,201,193,143,34,34,143
2330 DATA 190,231,0,0,3,71,127
,21,21,0,0,192,234,240,250,04,04
,31,67,192,127,73,0,0,0,252,254,
01,250,221,134,0,0,0,0
2340 DATA 40,72,144,80,2,2,0,0,1
2,10,37,34,64,192,3,7,11,17,10,0
2,32,192,192,224,200,134,72,4,4,
3,120,192,160,147
2350 DATA 200,201,240,200,1,3,0,
201,200,191,150,200,127,74,74,40
,34,20,12,3,254,4,4,12,20,50,240
,172
2360 RETURN

```

ENERGY FIELD

Dragon 32

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```

1 REM *** DRAGON VERSION ***
2 CLS:CLC:CLS
3 @00:000:Y=0:F7=0:F8=0:F9=0:Y=0:F1=0:F2=0:F3=0
4 REM *** ENERGY FIELD ***
5 GOSUB1000
6 GOSUB1000

```


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CENTURY

ENERGY FIELD

Dragon 32

```

420 A=470-40*F2+30/CH=FOR P=1 TO 10000
430 CH=STR$(STR$(F1)+",10412"+STR$(F2)+",2"+AB
440 DRAWC11+CH
450 IF G=0 THEN GOSUB 460
460 PLAY"Q41,100,"+CH$1+50+F1
470 DRAWC01+CH$1-F1+50/CH=STR$(STR$(F2)+",1
480 2"+STR$(F2)+",1"+AB(21)DRAWC11+CH$1+50+F2+1
490 IF G=0 THEN GOSUB 460
500 PLAY"Q41,100,"+CH$1+50+F1
510 DRAWC01+CH
520 F1=F1+50NEXT F
530 IF G=0 THEN DRAW"EQ23,10412":GOSUB 460
GOSUB 460:DRAW"EQ23,10412":GOSUB 460
540 IF G=0 THEN L=1+50
550 GOTO 30
1000 IF X=0 THEN GOTO 1000
1010 IF X=0 AND Y=0 THEN GOTO 1000
1020 IF X=21 THEN GOTO 3000
1030 IF X=21 OR Y=0 OR Y=27 THEN GOTO 3000
1040 COLOR 1,R1,LINE(20,21)-(20,170),PSET,0
1050 GOSUB 460
1060 COLOR 0,R1,LINE(21,21)-(20,170),PSET,0
1070 IF A=0 THEN GOTO 3000
1080 G=0+20
1090 G=0
1100 GOSUB 460:RETURN
1110 IF X=0 OR Y=0 OR Y=27 THEN GOTO 3000
1120 COLOR 1,R1,LINE(0,21)-(40,170),PSET,0
1130 GOSUB 460
1140 COLOR 0,R1,LINE(0,21)-(40,170),PSET,0
1150 IF A=0 THEN GOTO 3000
1160 G=0+20
1170 G=0
1180 GOSUB 460:RETURN
1190 IF Y=0 THEN GOTO 1000
1200 IF Y=27 OR Y=0 THEN GOTO 3000
1210 COLOR 1,R1,LINE(0,21)-(40,170),PSET,0
1220 GOSUB 460
1230 COLOR 0,R1,LINE(0,21)-(40,170),PSET,0
1240 IF A=0 THEN GOTO 3000
1250 G=0+20
1260 G=0
1270 GOSUB 460:RETURN
1280 IF Y=0 OR Y=27 THEN GOTO 3000
1290 COLOR 1,R1,LINE(0,21)-(40,170),PSET,0
1300 GOSUB 460
1310 COLOR 0,R1,LINE(0,21)-(40,170),PSET,0
1320 IF A=0 THEN GOTO 3000
1330 G=0+20
1340 G=0
1350 GOSUB 460:RETURN
3000 REM
3010 J=JAB:FOR B=10 TO 101 STEP 0
3020 PUT(X,B-10+10*(B/10),P1,P1+GET(X,Y)-10+
10*(B/10),P1):PUT(X,B-10+10*(B/10),B,P1)
3030 SOUND 2,212+J+0
3040 NEXT B
3050 PUT(X,B-10+10*(B/10),P1,P1+GET(X,Y)-10+
10*(B/10),P1):PUT(X,Y)-10+10*(B/10),B,AB
3060 L=1+50 IF L=1 THEN GOTO 3000
3070 GOSUB 460:RETURN
3080 CLS:GOTO 4000:GOTO 11,"GAME OVER":PRINT0
400+0,"YOU SCORED: "AB1:FOR S=0 TO 4000:GOTO 4
001,INSTR 0
3090 IF G=0 THEN G=0

```

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	1e	1n	2w	1e	1n	
W	3e	2s	LAST	1n	2w	E
	1n	1w	1s	1e	2w	
	3e	1n	2e	1n	2n	

S

The diagram shows the push button code of the new Superade book read in the MidWest Bank in Thunderside Street, Cambridge. The letters in a square are push button locations, and some of the 26 letters needing to be pressed in the correct order before the Superade story will ending again.

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